## RCRA INSPECTION REPORT

## ENVIRONMENTAL PROTECTION AGENCY, REGION 9

## TOXICS AND WASTE MANAGEMENT DIVISION

## FIELD OPERATIONS BRANCH

Purpose: RCRA Investigation

Facility: Fuller O'Brien Paint Company

Facility ID Number: CADU05130455

Report Number: R86E026

Date of Inspection: 12/18/85

EPA Investigators: Donn Zuroski

Environmental Protection Specialist

Barry Cofer

Environmental Protection Specialist

William Weis

Environmental Scientist

CA DOHS Investigator: Patricia Barni

Waste Management Specialist

Facility Representative: Michael D. Burdine

Manager of Engineering C.P.E.

Report Prepared By: Donn Zuroski

## POTENTIAL VIOLATIONS

40 CFR 265.14(b)(1)	The fence is down at the container storage area. The facility does not have artificial or natural barriers or controlled entry.
40 CFR 265.31	The storage area is not maintained and operated to minimize the possibility of an unplanned release of hazardous waste.
40 CFR 265.33	This facility does not test and maintain its emergency equipment in operable condition.
40 CFR 265.176	Ignitable wastes are not stored at least 50 feet from the facility's property line.

## BACKGROUND

On January 11, 1983, Ecology Protection Systems (EPS) issued a report on the soil contamination investigation at Fuller O'Brien's evaporation ponds. The report confirmed that heavy metals (lead, zinc and barium) were present in the pond sludges and surrounding soils. Organic solvents (including toluene) were found in the monitoring wells adjacent to the ponds.

At the time of the site visit Fuller O'Brien was in the process of "clean closing" its three waste sludge ponds.

## **OBSERVATIONS**

## >>> Sludge Tank (photos 1&2)

Wash water from latex paint processing is piped to a holding tank. The polymers settle to the bottom, the effluent is decanted off the top and sent to the sewer. The sludge is pumped into 55 gallon drums. The drums are taken to the container storage unit to be manifested out for disposal. As part of the pond closure activity, contaminated soil was being removed from an area below the tank. The area below the tank was then to be paved to avoid future contamination.

## >>> Container storage area (photos 7-12)

The container storage area is situated at the southeast edge of the Fuller O'Brien property, less than 50 feet from the boundary and adjacent to San Francisco Bay (see attachment #2). This unit is located on a concrete slab. Two drains which empty into the sewer line are incorporated into the slab. During the inspection it was noted that the forklift used in this unit was contaminated with sludge residue. Shortly after the inspection the forklift was decontaminated and photos were sent as documentation (see photos 15 & 16).

A few days prior to the inspection, a very high tide had damaged the south edge of this storage unit and exposed a wall of buried steel drums (see photo 12). A section of the berm along the south perimeter of this unit was missing and a portion of the boundary fence was down ( see photos 10-12).

## >>> Pond closure activities (photos 3-6)

The contaminated pond soil excavation project was shut down at the time of the visit. The clean up process is as follows: A "soil lift" was removed, then the remaining soil was tested for heavy metals. If the remaining soil shows contamination beyond the acceptable level (200 PPB for lead), then the process was to continue until the level of contamination was within the accepted level. The contaminated soil was drummed to be manifested off to a class I disposal site.

## ATTACHMENTS

Checklist

Part A

Photos

- #1 Waste Analysis Plan
- #2 site plan from Part A





## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

### **REGION IX**

## 215 Fremont Street San Francisco, Ca. 94105

Date: May 11, 1987

Subject: Fuller O'Brien Paint Company

December 18, 1985 Joint EPA/DHS Inspection

From: Ron Leach Kon

Environmental Engineer

To: File CAD005130455

Thru: Karen Schwinn, Chief

California Enforcement Section

CONTIDENTIAL

On December 18, 1985, a joint inspection of the O'brien Corporation was conducted by staff from EPA Region 9 and the California Department of Health Services (DHS). EPA and DHS prepared separate inspection reports both showing potential violations.

The DHS issued a Notice of Violation (attached) on March 17, 1986 that addresses violations of the California Administrative Code (CAC) including the substantive RCRA violations noted in the EPA inspection report. In addition to listing potential violations, the EPA inspection report indicates that an unusually high tide damaged the south edge of the container storage area and exposed a wall of buried drums. The NOV addresses the damaged storage area and the DHS Northern California Section will deal with the exposed drums in one of two ways depending on who is found to be responsible for the drums.

If DHS determines that the O'Brien Corporation is responsible, then a provision for assessment and mitigation of the buried drums will be included in the post closure permit for the facility. If the O'brien Corporation is found not to be responsible for the drums, then the Northern California Section mitigation unit will initiate a comprehensive study of the buried drum area. In addition, a RCRA Facility Assessment will be scheduled in the Facility Management Plan for this site.

The EPA inspection report notes four possible violations:

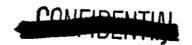
40 CFR 265.14(b)(1) The fence is down at the container storage area. The facility does not have artificial or natural barriers or controlled entry.

40 CFR 265.31	operated to minimize the possibility of an unplanned release of hazardous waste.
40 CFR 265.33	The facility does not test and maintain its emergency equipment in operable condition.
40 CFR 265.176	Ignitable wastes are not stored at least 50 feet from the facility's property line.

The March 17 NOV adequately addresses the potential violation of 40 CFR 265.31. The nature of the remaining three potential violations does not warrant an enforcement action:

- 1. The violation noted under 40 CFR 265.33 is based on a single undercharged fire extinguisher.
- 2. The violation noted under 40 CFR 2**6**.176 is listed because portions of the drum storage area are within 50 feet of the property line and the Part A permit application indicates that ignitable wastes are stored in drums. This violation is not supported by a visual observation of ignitable wastes being stored near a property line.
- 3. The violation given under 40 CFR 265.14(b)(1) relates to a section of fence missing near the drum storage area. The missing section of fence was destroyed during the excavation (for closure) of two surface impoundments and is adjacent to a tidal marsh area where the wall of buried drums was discovered. The NOV required that the facility boundary be posted with hazardous waste warning signs but did not require that the fence be repaired. The NOV did not address the fence because DHS anticipated that the exposed drum area was soon to undergo a comprehensive study and that a repaired fence would interfere with the study effort. The drum study never occurred as anticipated and will be delayed until the responsibility question discussed above is resolved. Patti Barni, a DHS inspector, recently visited the facility and found that the fence had been repaired.

The DHS has taken enforcement action against Fuller O' Brien Corporation that effectively addresses the substantive violations noted in the EPA inspection report. No further action required.



## DEÉARTMENT OF HEALTH SERVICES : 115, 515 H. MAS FULLICY LA 14764



March 17, 1986 Certified latter #P 596 705 204

E.P. Daly, Vice President
The CiBrien Corporation
450 East Grand Avenue
South San Francisco, California 94080

SUBJECT: Notice of Violation

Dear Mr. Daly:

On December 18, 1985 a joint inspection of the C'Brien Corporation was conducted by staff members of the Environmental Protection Agency and Patti Earni of this office. Prior to this inspection the O'Brien Corporation had submitted documents for review in an attempt to bring the facility into compliance with its Interim Status Document.

This Notice of Viplation is divided into 3 sections: Section I identifies those violations viewed by the Department as continuing violations originally cited in the November 12, 1985 Notice of Violation; Section II identifies those violations observed by the Department during the December 18, 1985 EPA - DOHS joint inspection; and Section III cites those areas of the O'Brien Corporation hazardous waste areas which require sampling and/or decentamination procedures.

Failure to correct deficiencies listed below within the specified timeframe will result in the Department taking enforcement action against the O'Brien Corporation.

Section I: Continuing violations based on the June 12, 1985 Interim Status Document Inspection:

NOTE: The violations cited reflect deficiencies in documents submitted by the O'Brien Corporation on December 2, 1985.

Count 1: Section 67105 a(1-3), Title 22, California Administrative Code (CAC): The O'Brien Corporation submitted for review a summary of training documentation and job descriptions in response to violations cited in the November 12, 1985 Notice of Violation. The O'Brien Corporation has failed to adequately provide documentation of introductory and annual review training courses. Information submitted dealt with fire brigade training films, sye safety, forklift operator and spill control cart training. The training plan does not address instruction for employment in the areas of hazardous waste storage and treatment procedures. There are no provisions for training on the self contained breathing apparatus, manifest and labeling procedures, and hazardous waste management techniques.

Mithin two weeks of the date of this letter the O'Brien Corporation must submit to the Department training schedules and course descriptions of all training required for new employees to work within all hazardous waste areas and identification of those courses reviewed annually for all employees working within the storage and treatment areas. The O'Brien Corporation shall also submit a revision of the spill control cart training document which states management shall be contacted immediately upon discovery of the spill instead of after the fact as the current document is worded.

Section II: Violations observed during the December 18, 1985 EPA and DOHS oversight inspection:

Count 2: Section 66300(f), Title 22, CAC and ISD, Section I, Part 1(a): The O'Brien Corporation has a sewer connection at a 100-gallon sump adjoining the drummed latex washwater sludge process area. If a substantial spill or leak occurs within the process area, hazardous waste would flow from a 50-gallon sump to the 100-gallon sump directly into the sewer system.

Within 'two weeks from the date of this letter the O'Brien Corporation must take measures to prevent potential discharge of hazardous wastes into the sewer system. The O'Brien Corporation can either install a berm which will prevent spills or leaks from entering the sumps and possibly overflowing into the sewer system or a valve can be installed regulating the flow of materials through the outlet. The valve would enable the O'Brien Corporation to analyze accumulated materials prior to discharge. If this option is selected the O'Brien Corporation must comply with all regulations governing underground structures as dictated by the Sher Bill and as administrated by the Regional Water Quality Control Board (RWQCB).

Count 3: Section 66300(f), Title 22, CAC and ISD, Section I, Part 1(a): The O'Brien Corporation has 2 sumps next to treatment tanks which were formerly used in the treatment of latex washwater. A sewer system connection exists at the top of the tanks. A substantial spill or leak from the treatment tanks would result in the discharge of untreated latex washwater to the sewer system.

Within two weeks of the date of this letter the O'Brien Corporation must take action to prevent the possible discharge of hazardous wastes to the sewer system. The C'Brien Corporation may install a berm to prevent possible overflow or spillage from entering the sumps, seal off the sewer connection, or install a valve at the sewer connection allowing the O'Erien Corporation to regulate the flow of materials from the sumps to the sewer.

Count 4: Section 67103(c), Title 22, CAC and ISD, Section II, Part 1(c) and Section III, Part 15: The O'Brien Corporation has failed to post bilingual hazardous waste signs on the facility's southern perimeter fence bendering the surface impoundment area and in the area of the buried drums where's segment of the facility fence has been removed.

The O'Brien Corporation shall post signs stating in English and Spanish "Danger - Hazardous Waste Area - Unauthorized Personnel Keep Out" along the perimeter fence south of the surface impoundments and where the fence has been removed at the buried drum site. The O'Brien Corporation must submit photographs to the Department within two weeks of receipt of this letter as proof of posting the required signs.

Count 5: Section 66508(c), Title 22, CAC and ISD, Section II, Part 4(c) 1-5: The O'Brien Corporation stored several drums containing latex washwater sludge in a process area west of the designated hazardous waste storage area without hazardous waste labels.

The O'Brien Corporation must label all drums immediately upon introducing the waste to the container and store the containers in the designated hazardous waste storage area.

Upon receipt of this letter the O'Brien Corporation shall immediately make changes in its operating procedure to accommodate the aforementioned requirements. Within one week of receipt of this letter, the O'Brien Corporation shall submit to the Department a signed certification stating all drums shall be properly labeled and kept in the designated hazardous waste storage area.

Count 6: Sections 66508(c) and 67243, Title 22, CAC and ISD, Section II, Part 4(c) 1-5 and 4(d): The O'Brien Corporation does not manage empty drums contaminated with latex washwater sludge residues in a manner consistent with Hazardous Waste Control Laws. Several open, unlabeled drums were observed stacked on pallets between the spill control room and an adjoining building in an area not designed or equipped for the storage of hazardous wastes.

The O'Brien Corporation must store all empty containers contaminated with hazardous waste residues in the designated hazardous waste storage area and label containers with hazardous waste labels. All hazardous waste containers must be stored closed.

Upon receipt of this letter, the C'Brien Corporation shall make the necessary changes in its operating procedure to accommodate the aforementioned requirements and shall submit to the Department within one week of receipt of this letter a signed certification stating these requirements will be strictly followed.

Count 7: ISD, Section II, Part 1(d): A portion of the berm surrounding the O'Brien Corporation drum storage area is broken.

Within two weeks of receipt of this letter the O'Brien Corporation shall submit photographs to the Department documenting the repaired drum storage area berm.

Count 8: Section 67102(a)1, Title 22, CAC and ISD, Section III, Part 3(a)1: The O'Brien Corporation does not sample and analyze effluent generated at the latex washwater treatment tanks at the point of discharge. Waste analyses collected to date represent a composite of facility-wide discharges to the sanitary sewer and not specifically for those wastes generated at the treatment tanks.

The O'Brien Corporation must incorporate into its effluent sampling program sample collection and analyses of treated washwater as it is discharged from the treatment tank. The O'Brien Corporation shall submit to the Department analysis results from samples collected at the point of discharge from the treatment tank and from the facility-wide composite effluent sample.

Count 9: Section 67163(b) 1 and 2, Title 22, CAC and ISD, Section IV, Part 1 (a and b): The O'Brien Corporation could not provide adequate documentation on the volume of wastes treated or quantities of hazardous wastes stored on-site.

Upon receipt of this letter the O'Brien Corporation must immediately begin incorporating into its operating record all information specified in the ISD regarding volumes of wastes treated and stored onsite.

Section III: Sampling and/or decontamination requirements.

Count 10: Health and Safety Code, Sections 25154, 25189(d) and 25201 and ISD, Section I, Part 1(a): The O'Brien Corporation has not cleaned and decontaminated all surfaces and equipment stained with latex washwater sludge residues spilled during tank pumpings. Evidence of spillage was observed at the tank base, on forklifts used to transport sludge-filled drums, and on out-of-service sumps adjacent to the treatment tank area.

Upon receipt of this letter the C'Brien Corporation shall take immediate action by implementing its contingency plan to clean and decontaminate areas visibly stained with latex washwater sludge residue including, but not limited to, all equipment (i.e., forklifts), tank. sidings, out-of-service sumps adjacent to the treatment tanks, and the valve region at each tank base. The O'Brien Corporation shall submit to the Department within four weeks of receiving this letter a report summarizing all decontamination procedures and copies of manifests generated for the disposal of contaminated rinsewater. The letter must also describe measures taken by the O'Brien Corporation to reduce or eliminate spills during tank pumpings.

The O'Brien Corporation shall also initiate a sampling program to sample the 50-gallon and 100-gallon sumps located west of the drum storage area. If samples analyzed demonstrate the sumps are contaminated with hazardous wastes, the O'Brien Corporation must decontaminate both sumps and the associated interconnecting pipeway. The O'Brien Corporation must submit a report to the Department within four weeks of receiving this letter documenting sample procedures, analyses, and decontamination methods and corresponding manifests, if needed.

The Department will schedule a re-inspection of the O'Brien Corporation to verify compliance. The issuance of this Notice of Violation and Schedule of Compliance does not preclude the Department of Health Services from taking administrative, civil, or criminal action as a result of the violations noted herein.

If you have any questions regarding this Notice, please contact Patti Barni at (41)540-2747.

Sincerely,

Dwight R. Hoenig, Chief

North Coast California Section Toxic Substances Control Division

co: Wil Bruhns - RWQCB, Oakland EPA

DRH:pb:ron

# 2- Way Memo

Subject: RCRA Investigation of Fuller O'Brien Paint Co.

8 4 = 3

Philip Bobel, Chief

Toxics and Waste Management Division

Waste Management Branch T-2

DATE OF MESSAGE

ROUTING SYMBOL

6-6-86

T-3-2

SIGNATURE OF ORIGINATOR

Conserve space.

copy, return one copy.

TITLE OF ORIGINATOR

Field Investigator

INSTRUCTIONS
Use routing symbols whenever possible.

SENDER (Originator of message): Use brief, informal language.

RECEIVER (Replier to message):

Forward original and one copy.

Reply below the message, keep one

FOLD\_

MESSAGE

Furloand is the report for the December 12, 1995, 1992 Inspection at Fuller Offrier Paint Company.

mlis facility is located immediately adjacent to the Day. A new days before the site visit an unusually bigh tide removed a large portion of soil, damagine the south edge of the container storage area and exposing a wall of buried drums.

At the time of the inspection, this famility was in the process of clean closing its sludge bonds. CA PORS is the lead agency on the road closure. Note that CA FARS changed the clean close allowable lead level from 50 PPR to 200 ppm.

REPL

The following violations were noted in the report: 265.14(b)(l) 265.31 265.33 265.176

Fom: Donn Zuroski T-3-2

thu : Kathleen Shimmin, Chief

Field Operations Branch T-3

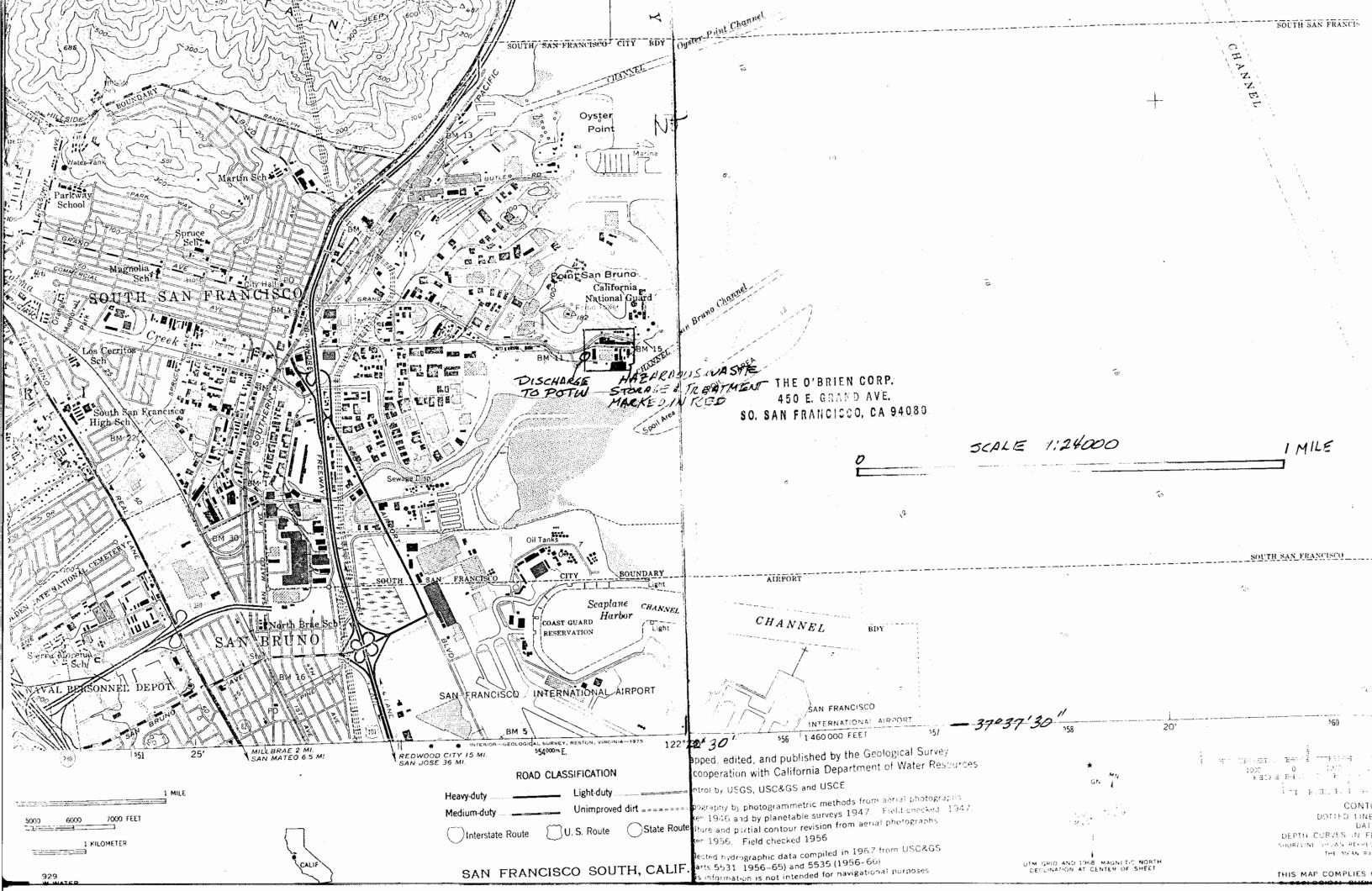
Mode

DATE OF REPLY

ROUTING SYMBOL

SIGNATURE OF REPLIER

TITLE OF REPLIER



Form Approved OMB No. 158-\$80004 Continued from page 4. V. FACILITY DRAWING (see pres CAD005130455 SAN FRANCISCO BAY PRODERTY BOUNDARY PHSTO # 2 FUME [ SCRUBBER DRUM STORAGE PHOTO = 3 14 FLOCCULATION TANKS EVAPORATION COFEET PONUS PROPERTY 0 SOLVENT STORAGE TANK GATIE PROPERTY BOUNDARY

SCALE : 1/NON = 150 FEET

# FULLER O'BRIEN PAINT COMPANY

## II. <u>Interim Status</u>: (Part 270 Subpart G)

		165	NO	Camerics
(A)	Qualifying For Interim Status:			
1.	For the existing facility to be treated as having been issued a permit, the facility must have:			
a.	Submitted a notification of H.W. activity (270.70a.1)?	$ \mathcal{L} $		
b.	Submitted Part A of the permit application (270.70a.2)?	<u>~</u>		
c.	Achieved compliance with RCRA interim status standards (270.70b)?			SEE CHECKLIST
(B)	Operating During Interim Status:			
1.	Has the facility complied with the following restrictions:	٠		
a.	Has only treated, stored or disposed of H.W. specified in the Part A (270.71a.1)?	_		
b.	Has only employed processes specified in the Part A (270.71a.2)?	<u>/</u>		
c.	Has not exceeded design capacities specified in the Part A (270.71a.3)?	1		
(C)	Changes During Interim Status:	ر ج		
1.	Has a revised Part A been submitted prior to the following changes:		<del>-</del>	
a.	T/S/D of H.W. not previously identified in the Part A (270.72a)?			
b.	Increases in design capacity of processes (270.72b)?			
c.	Changes in or additions to processes (270.72c)?			
d.	Change in ownership (270.72d)?		_	
2.	Have the changes made not amounted to reconstruction (270.72e)?	V		

## III. General Facility Standards: (Part 265 Subpart B)

		Yes	No_	Comments
(A)	Required Notices:	-p ,		
1.	Has the RA been notified regarding the receipt of H.W. from a foreign source (265.12a)?	<b>4</b>		
2.	Before transferring ownership, has the facility notified the new owners in writing of the requirements of Parts 265 and 122 (265.12b)?	s		
(B)	General Waste Analysis:			
1.	Has the facility obtained a detailed chemical and physical analysis of each H.W. (265.13a.1)?	<u>/</u>	<i>_</i>	
2.	Does the analysis contain all information that must be known to properly treat, store or dispose of the H.W. (265.13a.1)?	<u>/</u>	-	
3.	Does the facility have records documenting the required H.W. analysis, e.g., lab reports, published data, generator supplied data (265.13a.2)?	// 		
4.	Has the analysis been repeated to ensure that it is accurate and up-to-date (265.13a.3)?			
5.	Is the analysis repeated when there is a change in the process (265.13a.3)?			
6.	For off-site facilities, is the analysis repeated when the H.W. received does not match the H.W. designated on the manifest (265.13a.3)?			
7.	For off-site facilities, does the facility inspect or analyze each movement of H.W. to verify that the H.W. received matches the identity of the H.W. specified on the manifest (265.13a.4)?		/	

## III. <u>General Facility Standards</u>: - Continued (Part 265 Subpart B)

Yes

No

Comments

	·			SE ATTROUMEN-#1
8.	Does the facility have a detailed waste analysis plan (265.13b)?	<u> </u>		35 C 7 C WENTHER THE
9.	Does the facility follow the procedures specified in the waste analysis plan (265.13b)?	107 + -	110/82	
10.	Does the waste analysis plan contain the following elements:			
a.	Parameters of analysis of each H.W. handled (265.13b.1)?			
b.	Rationale for the selection of each parameter (265.13b.2)?		<del></del>	
c.	Test methods used to obtain a representative sample of H.W. (265.13b.3)?	<u> </u>		
đ.	Frequency which each analysis will be repeated (265.13b.4)?	<u> </u>		
e.	For off-site facilities, the analysis that generators have agreed to supply (265.13b.5)?			
11.	For off-site facilities, does the plan specify procedures for inspection or analysis of each movement of H.W. (265.13c)?			
12.	For off-site facilities, does the plan contain the following elements:	ه معید می وسطاهیم		
a.	Description of procedures used to identify each movement of H.W. (265.13c.1)?	1		
b	Description of the sampling method used to obtain a representative sample of the H.W. (265.13c.2)?	$\underline{V}$		
(C)	Security:			
1.	Do security measures include:	u u		
a.	24-hour surveillance (265.14b.1)?	$   \angle   $	<u> </u>	

# III. General Facility Standards: - Continued (Part 265 Subpart B)

		162	NO	Colliencs
b.	Artificial or natural barriers and controlled entry (265.14b.2)?		<u>~</u>	AT CONTRICTED STORY &
c.	Signs with the legend "Danger- Unauthorized Personnel Keep Out" posted at entrances to active portions of facility (265.14c)?	_/		- HT CONTRUCK - NY NY R
(D)	General Inspection Requirements:			
	Does the facility inspect for equipment malfunctions and deterioration, operator errors, and H.W. discharges (265.15a)?	1	,	
2.	Does the facility follow a written inspection schedule (265.15b.1)?	1	, —	Une, use
3.	Is the schedule kept at this facility (265.15b.2)?	<u> </u>	/ —	16
4.	Does the schedule identify types of problems that are expected from malfunction, operator error, deterioration or discharges of all: (265.15b)	-	,	
a.	monitoring equipment?	_	/	
b.	safety, emergency equipment?	<u> </u>		
c.	security equipment?	4		
d.	operating and structural equipment?	<u> </u>	/	
5.	Does the schedule indicate the frequency of inspection for each item (265.15b.4)?	N0 +		
6.	Does the schedule include daily inspections of loading and unloading areas (265.15b.4)?			
7.	Has the facility taken remedial action to correct the problems revealed on an inspection (265.15c)?		, 	

# III. General Facility Standards: - Continued (Part 265 Subpart B)

		<u>Yes</u>	<u>No</u>	Comments
8.	Are inspections recorded in an inspection log (265.15d)?	<u> </u>		
9.	Does the log include: (265.15d)			
a.	Date and time of inspection?	/		
b.	Name of inspector?	1/		
c.	Observations recorded?	1/		
đ.	Date and nature of repairs or other remedial actions?	<u> </u>	<b></b>	· · · · · · · · · · · · · · · · · · ·
10.	Are inspection records kept for at least 3 years (265.15d)?			AND SINCE APPRICAS
(E)	Personnel Training:	· James		18 LLSF N
1.	Does the facility have a personnel training program (265.16a.1)?		· .	
2.	Is it directed by a person trained in H.W. management procedures (265.16a.2)?		· ·	
3.	Does the program include training in: (265.16a.3)			
a.	Procedures for using, inspecting, repairing and replacing emergency and monitoring equipment?			
b.	Emergency procedures including contingency plan implementation?		<del></del>	·
4.	Do new personnel receive required training within 6 months (265.16b)?		_	
5.	Do personnel take part in an annual review of the initial training (265.16c)?		/	

# III. <u>General Facility Standards</u>: - Continued (Part 265 Subpart B)

		<u>Yes</u>	No_	Comments
6.	Do personnel training records include: (265.16d)	<b>Á</b>		
a.	Job titles?	+		
b.	Job Descriptions?	+		
c.	Descriptions of training?	1		
b.	Records of training?			
(F)	Requirements For Ignitable, Reactive Or Incompatible Wastes:	,		
1.	Are the following precautions taken to prevent accidental ignition or reaction: (265.17a)			
a.	Separation and protection from ignition sources?			
b.	No smoking signs in hazard areas?	<u>/</u>		
2.	Is the T/S/D of ignitable, reactive and incompatible waste conducted so that it does not: (265.17b)			
a.	Generate extreme heat or pressure, fire or explosion, or violent reaction?	<u></u>		
b.	Produce uncontrolled toxic or flammable mists, fumes, dusts or gases?	<u>/</u>	/ / <del></del>	
c.	Damage structural integrity of H.W. containment devices? (e.g., tanks, containers, liners)	<u>/</u>		
d.	Threaten human health or the environment?	<u></u>	_	

# IV. Preparedness and Prevention: (Part 265 Subpart C)

		Yes	No_	Comments
(A)	Is the facility designed, constructed, maintained, and operated to minimize the possibility of fire, explosion, or releases of H.W. or H.W. constituents to air, soil, or surface water which could threaten human health or the environment (265.31)?			NOTE SENER DESINS IN DRUM STORED GE AREA COOLD LESS TO A SPICE
(B)	Required Equipment:			GETTINS INTO THE SENTE
1.	Does the facility have the following equipment where applicable:		,	US PROTO
a.	Internal communications or alarm systems (265.32a)?		, 	
b.	Telephone or 2-way radios at the scene of operation (265,32b)?	1		
c.	Portable fire extinguishers with water, foam, inert gas, dry chemical spill control and decontamination equipment (265.32c)?	; _/	, 	
d.	Water at adequate volume and pressure or foam producing equipment or automatic sprinklers (265.32d)?		_	
(C)	Testing And Maintenance Of Equipment	•		About till for a medici
1.	Does the facility test and maintain emergency equipment in operable condition (265.33)?		<u>/</u> /	NOTE THE EXPLOSERED
(D)	Access To Communications Or Alarm Sys	stems:		SEE PHOTO
1.	Do personnel in areas where H.W. is being handled have immediate access to these systems (265.34)?	<u> </u>		
(E)	Required Aisle Space:			
1.	Is their adequate aisle space for unobstructed movement of fire, spill control and decontamination equipment in an emergency (265.35)?	1/		

# V. Contingency Plan and Emergency Procedures: (Part 265 Subpart D)

		Yes	<u>No</u>	Comments
(A)	Does the facility have a contingency plan (265.51a)?	<u> </u>		
(B)	Content Of Contingency Plan:			
1.	Does the plan describe actions personnel must take to comply with \$\$ 265.51 & 265.56 in response to fires, explosions, or unplanned releases of H.W. (265.52a)?	A Part of the second se	्रेक्	
2.	Does the plan describe arrangements agreed by police, fire dept., hospitals, contractors, and State and local emergency response teams to coordinate emergency services pursuant to § 265.37 (265.52c)?	AND THE COURT OF T		
3.	Does the Plan list names, addresses, and phone numbers (office & home) of all persons qualified to act as emergency coordinators (265.52d)? (list in order of responsibility)		——	· · · · · · · · · · · · · · · · · · ·
4.	Does the plan list all emergency equipment including the location and physical description of each item on the list and a brief outline of its capability (265.52e)?		. —	
5.	Does the plan include an evacuation plan for personnel and a description of signals to begin evacuation, evacuation routes and alternate routes (265.52f)?			
(C)	Copies of Contingency Plan:			
1.	Is the plan maintained at the facility (265.53a)?	-		
2.	Has the plan been submitted to all local emergency organizations (265.53b)?		/	

# X. Use And Management Of Containers: (Part 265 Subpart I)

		<u>Yes</u>	NO_	Comments
1.	Does the facility transfer H.W. from containers not in good condition or leaking to containers in good condition (265.171)?	<u> </u>	/	
2.	Are containers compatible with H.W. stored in them (265.172)?	<u>_</u>	_	
3.	Are containers stored closed (265.173a)?	$\underline{\hspace{0.1cm}}$		·
4.	Are containers managed to prevent rupture or leakage (265.173b)?	<u>/</u>	<del></del>	
5.	Are containers inspected weekly for leaks and deterioration (265.174)?	1/		·
6.	Are ignitable or reactive wastes stored at least 50 feet from the facility's property line (265.176)?		2	DEUN STOREGE PRES
7.	Are incompatible wastes stored in separate containers (265.177a)?	10/	<u></u>	MATICAME F #3
8.	Are H.W. not placed in unwashed containers that previously held an incompatible waste or material (265.177b)?	• ./		·
9.	Are containers holding a H.W. that is incompatible with any waste or materials stored nearby in other containers, piles, open tanks, or surface impoundments separated from the incompatibles by suffecient distance or protected by means of a dike, bernwall, or other device (265.177c)?			
10.	Are containers that are not empty managed as a H.W. (261.7a.2)?		_	· · ·
11.	For a container to be considered empt the facility must ensure that:	<b>-</b> Y		
	No more than one inch of residue remains on bottom of container or inner lining (261.7b.1)? Containers that held an acutely H.W. are tripled rinsed using a solvent capable of removing the contents (261.7b.3)?	<u></u>		

NTINUED FROM THE FRON	·		<u> </u>	
SIC LODES 14-digit, in order or prioring				
2 8 5 1 (specify)		(specify)	A. 02/CO.00	
Paint, Varnish,	Lacquer, Enamel	Synt	hetic Resins	
(specify)		(specify		- July 1: No loca in the face of the face
SHERMORNE BANGO		T MAN COMMENT		
				B. Is the home flated in
O'BRIEN CORP	ORATION TH	l E		_ Dres □No
E STATUS OF STANATOR (Balan			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
THE PARTY OF THE P	P P	(specify)	4 1 5	7 6 1 2 3 0 0
450 EAST GRAN	D AVENUE			
	A.B		THE PARTY OF	of an instanting
S.O.U.T.H. S.A.N. F.R	1. [18] - 1822 - 17 - 18 - 18 - 18 - 18 - 18 - 18 - 18	C.A 9.4.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
The second se			es as a superior de la companya de l	
Addition of the second		Come from Programad Sources		
			(specify)	A STATE OF S
			(specify)	
EQ. Eq.	ALLES OF THE STATE		rs	
1.30		The following		Jes nieb igen gebei
and the second s	the state of the s	dung religion to the		And the second
60	: 4			
7	. 3/			
MANUFACTURE AND	SALE OF PAINTS AND	OTHER COATINGS.		
MANUFACTURE OF A	ALKYD AND EMULSION R	RESINS FOR CAPTIVE	USE.	
Application of a first transfer of the first				
And the second s	The Committee of the Co	· 「Market of the Confusion of the Conf	and the second of the second o	
	The state of the s	and the second of the second o	and the second of the second o	
A. NAME & OFFICIAL TITLE (type or pri	nt) B. BiGi	NATURE		. DATE SIGNED
E. P. DALY, VICE PRESIDE	NT E	PWaly		11/14/80
and the second of the second o		/1		- 1 / 1 - 1
ACCEPTAGE OF THE PROPERTY OF T				

EPA Form 3510-1 (6-80)

REVERSE

---

SEPA SPINITOR TYPE IN THE UNRAGED AT SECTION 158-S80004  FORM:  ILL FIRST OR REVISED APPLICATION  Place an "X" in the appropriate box in A or B below Imark one box only) to indicate whether this is the first application you are submitting for your facility or revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.  A. FIRST APPLICATION [place an "X" below and provide the appropriate date)  [X] 1. EXISTING FACILITY (See instructions for definition of "existing" facility.  [X] 2. New FACILITY (Complete item below.)  FOR NEW FACILITY (Complete item below.)  FOR NEW FACILITY (Complete item below.)  FOR NEW FACILITY (See instructions for definition of "existing" facility.  [X] 1. EXISTING FACILITY (See instructions for definition of "existing" facility.  [X] 2. New FACILITY (Complete item below.)  FOR NEW FACILITY (Complete item									
Consolidated Permits Program  (This information is required under Section 3005 of RCRA.)  FOR OFFICIAL USE ONLY  APPLICATION  Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in term I above.  A. FIRST APPLICATION (place an "X" below and provide the appropriate date)  [In a constant of this is a revised application, enter your facility.]  [In a constant of this is a revised application, enter your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number, or if this is a revised application, enter your facility is a revised application or item I above.  [In a constant of this is a revised application or item I above.]  [In a constant of this is a revised application or item I above.]  [In a constant of this is a revised application or item I above.]  [In a constant of this is a revised application or item I above.]  [In a constant of this is a revised application or item I above.]  [In a constant of this is a revised application or item I above.]  [In a constant of this is a revised application or item I above.]  [In a constant of this is a revised application or item I above.]  [In a constant of this is a revised application or item I above.]  [In a constant of this is a revised application or item I above.]  [In a constant of this is a revised application or item I above.]  [In a constant of this is a revised application or item I above.]  [In a constant of this is a revised									
FOR OFFICIAL USE ONLY  APPLICATION  APPROVED (yr., mo., & day)  Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in item I above.  A. FIRST APPLICATION (place an "X" below and provide the appropriate date)  A. FIRST APPLICATION (place an "X" below and provide the appropriate date)  Complete item below.)  To previous facilities, provide the Date (yr., mo., & day)  OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED  (use the boxes to the left)  1. FACILITY HAS INTERIM STATUS  2. FACILITY HAS A RCRA PERMIT									
APPROVED (yr., mo., & day)  II. FIRST OR REVISED APPLICATION  Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.  A. FIRST APPLICATION (place an "X" below and provide the appropriate date)  A. I. EXISTING FACILITY (See instructions for definition of "existing" facility.  Complete item below.)  TO OPERATION BEGAN OR THE DATE (yr., mo., & day)  OPERATION BEGAN OR THE DATE (ONSTRUCTION COMMENCED)  II. FACILITY HAS INTERIM STATUS  C. YR. Mo. DAY  OPERATION (place an "X" below and complete Item I above)  1. FACILITY HAS INTERIM STATUS									
II. FIRST OR REVISED APPLICATION  Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in tem I above.  A. FIRST APPLICATION (place an "X" below and provide the appropriate date)  [X] 1. EXISTING FACILITY (See instructions for definition of "existing" facility.  [X] 2. NEW FACILITY (Complete item below.)  [X] 3. NEW FACILITY (Complete item below.)  [X] 4. MO. DAY (FOR NEW FACILITIES, PROVIDE THE DATE (Yr., mo., & day))  [X] 5. REVISED APPLICATION (place an "X" below and complete Item I above)  [X] 72 74 75 75 77 72 78 77 78 77 78 77 78 78 77 78 77 78 78									
Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.  A. FIRST APPLICATION (place an "X" below and provide the appropriate date)  [X] 1. EXISTING FACILITY (See instructions for definition of "existing" facility.  [X] 2. NEW FACILITY (Complete item below.)  [X] 3. EXISTING FACILITY (See instructions for definition of "existing" facility.  [X] 1. EXISTING FACILITY (See instructions for definition of "existing" facility.  [X] 2. NEW FACILITY (Complete item below.)  [X] 3. NEW FACILITY (Complete item below.)  [X] 4. MO. DAY (yr., mo., & day)  [X] 5. PROVIDE THE DATE (yr., mo., & day)  [X] 6. OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)  [X] 73 74 75 77 75  [X] 6. PROVIDE THE DATE (yr., mo., & day)  [X] 72 74 75 75 77 75  [X] 6. PROVIDE THE DATE (yr., mo., & day)  [X] 73 74 75 77 75  [X] 6. PROVIDE THE DATE (yr., mo., & day)  [X] 73 74 75 77 75  [X] 74 75 77 75  [X] 75 77 75  [X] 76 77 75  [X] 77 75  [X] 78 78 77 75  [X] 78 78 78 78 78 78 78 78 78 78 78 78 78									
Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.  A. FIRST APPLICATION (place an "X" below and provide the appropriate date)  [X] 1. EXISTING FACILITY (See instructions for definition of "existing" facility.  [X] 2. NEW FACILITY (Complete item below.)  [X] 3. EXISTING FACILITY (See instructions for definition of "existing" facility.  [X] 1. EXISTING FACILITY (See instructions for definition of "existing" facility.  [X] 2. NEW FACILITY (Complete item below.)  [X] 3. NEW FACILITY (Complete item below.)  [X] 4. MO. DAY (yr., mo., & day)  [X] 5. PROVIDE THE DATE (yr., mo., & day)  [X] 6. OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)  [X] 73 74 75 77 75  [X] 6. PROVIDE THE DATE (yr., mo., & day)  [X] 72 74 75 75 77 75  [X] 6. PROVIDE THE DATE (yr., mo., & day)  [X] 73 74 75 77 75  [X] 6. PROVIDE THE DATE (yr., mo., & day)  [X] 73 74 75 77 75  [X] 74 75 77 75  [X] 75 77 75  [X] 76 77 75  [X] 77 75  [X] 78 78 77 75  [X] 78 78 78 78 78 78 78 78 78 78 78 78 78									
revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility SEPA I.D. Number in Item I above.  A. FIRST APPLICATION (place an "X" below and provide the appropriate date)  Y. EXISTING FACILITY (See instructions for definition of "existing" facility.  Complete item below.)  FOR NEW FACILITY (Complete item below.)  FOR NEW FACILITY (PROVIDE THE DATE (Yr., mo., & day))  OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (yr., mo., & day)  OPERATION BEGAN OR IS  IS 73 74 75 75 77 73  REVISED APPLICATION (place an "X" below and complete Item I above)  1. FACILITY HAS INTERIM STATUS									
1. EXISTING FACILITY (See instructions for definition of "existing" facility.  Complete item below.)  1. EXISTING FACILITY (See instructions for definition of "existing" facility.  Complete item below.)  FOR NEW FACILITY (Complete item below.)  FOR PROVIOE THE DATE (yr., mo., & day)  PROVIOE THE DATE (yr., mo., & day)  YR. Mo. DAY (yr., mo., & day) OPER  (use the boxes to the left)  TION BEGAN OR IS  EXPECTED TO BEGIN  B. REVISED APPLICATION (place an "X" below and complete Item I above)  1. FACILITY HAS INTERIM STATUS									
The state of the s									
B. REVISED APPLICATION (place an "X" below and complete Item I above)  1. FACILITY HAS INTERIM STATUS  72  2. FACILITY HAS A RCRA PERMIT									
$\frac{1}{n}$									
III. PROCESSES - CODES AND DESIGN CAPACITIES									
A. PROCESS CODE — Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, the									
describe the process (including its design capacity) in the space provided on the form (Item III-C).									
PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.     AMOUNT — Enter the amount.									
<ol> <li>UNIT OF MEASURE — For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.</li> </ol>									
PRO- APPROPRIATE UNITS OF PRO- APPROPRIATE UNITS OF CESS MEASURE FOR PROCESS CESS MEASURE FOR PROCESS									
PROCESS CODE DESIGN CAPACITY PROCESS CODE DESIGN CAPACITY									
Storege: Treatment: Treatment: To GALLONS OR LITERS TANK TO GALLONS PER DAY OR									
TÄNK 502 GALLONS OR LITERS LITERS PER DAY WASTE PILE 503 CUBIC YARDS OR SURFACE IMPOUNDMENT TO2 GALLONS PER DAY OR CUBIC METERS LITERS PER DAY									
SURFACE IMPOUNDMENT SOA GALLONS OR LITERS INCINERATOR TOS TONS PER HOUR OR METRIC TONS PER HOUR:									
Disposal:  INJECTION WELL  D79 GALLONS OR LITERS  GALLONS PER HOUR OR LITERS PER HOUR									
LANDFILL D80 ACRE-FEET (the volume that OTHER (Use for physical, chemical, T04 GALLONS PER DAY or thermal or biological treatment LITERS PER DAY depth of one foot) OR processes not occurring in tanks,									
HECTARE-METÉR surface impoundments or inciner- LAND APPLICATION DE ACRES OR HECTARES atom. Describe the processes in									
OCEAN DISPOSAL D82 GALLONS PER DAY OR the space provided; Item III-C.) LITERS PER DAY BURFACE IMPOUNDMENT DB3 GALLONS OR LITERS									
UNIT OF UNIT OF UNIT OF									
MEASURE MEASURE MEASURE MEASURE CODE UNIT OF MEASURE CODE UNIT OF MEASURE CODE									
GALLONSV ACRE-FEETA									
CUBIC METERS L TONS PER HOUR D HECTARE-METER									
GALLONS PER DAY U LITERS PER HOUR									
<b>EXAMPLE FOR COMPLETING ITEM III</b> (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gellons and the atther can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gellons per hour.									
DUP TA S									
DUP TA S									
DUP TA S									
DUP TA S									
DUP  T/A C  DUP  12 14 15  B. PROCESS DESIGN CAPACITY  CESS CODE (from list above)  14 AMOUNT (apecify)  DUP  15 19 19 22 18 29 32 16 18 19 32 29									
DUP  TIA C  DUP  TIA C  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
DUP  TIA C  DUP  TIA C  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
DUP  T/A C  DUP  1 1  B. PROCESS DESIGN CAPACITY  FOR CESS CODE (from list above)  1 AMOUNT (specify)  CODE (from list above)  T/A C  DUP  1 1 10  B. PROCESS DESIGN CAPACITY  FOR CESS CODE (from list above)  T. AMOUNT (specify)  CODE (from list above)  T. AMOUNT (specify)  FOR CESS CODE (from list above)  T. AMOUNT (specify)  T. AMOUNT (specif									
DUP  T/A c  T   1   1   1   1   1   1   1   1   1									

inued from the front.				• (
PROCESSES Icontinue	d)		SES (ando "TOA") de EAC. PRO	
PÂCE FOR ADDITIONAL ICLUDE DESIGN CAPAC	PROCESS CODES OR FOR DES ITY.	CRIBING OTHER PROCES	SES (code "T04") dR EAC PROG	
	•			
				·

- A EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous westes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or conteminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE CODE	METRIC UNIT OF MEASURE	CODE
POUNDSP	KILOGRAMS	K
TONS	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

### D. PROCESSES

à

1. PROCESS CODES:

For listed hezardous wests: For each listed hezardous wests entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hezerdous westes: For each characteristic or toxic conteminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER -- Hezardous wastes that can be described by NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARD More than one EPA Hazardous Waste Number shall be described on the form as follows:

- -1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B.C. and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.

  3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV Ishown in line numbers X-1, X-2, X-3, and X-4 below) -- A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will trest and dispose of three non-listed westes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Trestment will be in an incirerator and disposel will be in a landfill.

-5,5			C.	UNIT	L		D. PROCESSES			D. PROCESSES						
Z Z Z O	W	15	AR CO	10	B. ESTIMATED ANNUAL QUANTITY OF WASTE	7	MEA URE inter iode)	Γ			1. 7		CE!	SS CODE	·	2. PROCESS DESCRIPTION (If a code is not entered in D(1))
X-1	K	o	5	4	900		P	7	.,	3	D	8	0			4. D
<b>-</b> 2	D	0	0	2	400		P	7	. (	) 3	D	8	0	<b>1</b> 3,		
<b>X-</b> 3	D	0	0	1	100	Γ	P	7	0	3	D	8	0			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
X-4	D	0	0	2	A Company of the Comp			+				1	ا پسرو	والمعارض المارات		included with above

ontinued from page 2.  NOTE! Phatocopy this page before completin	roc e more th	than 26 wastes to list.	Fon proved OMB No. 158-S80004
EPA I.D. NUMBER (enter from page 1)	$I \setminus I \setminus I$	TOR OFFICIAL US⊾ OF	T/A S
w C A D O O 5 1 3 0 4 5 5			2 DUP
IV. DESCRIPTION OF HAZARDOUS W.	STES (continu		. PROCESSES
A. EPA W. HAZARD. ZO WASTENO GUANTITY OF WAS (enter code)	AL OFMEAT	1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1 K 0 7 8 210		87 - 89 87 - 89 87 - 88 87 - 88 S O 1 S O 2	Transported for Solvent Reclamation
2 K 0 7 9 4,000	Т	S 0 2 T 0 1	Discharge to POTW
3 K 0 8 1 440	Т	T 0 1 S 0 4	
4 K 0 8 2 50		S 0 1 <del>D 0 0</del>	
5 D O O 1 50 16N17ABL	T	S 0 1 <del>D 8 0</del>	
6 D 0 0 5 BARIUM	<b>A</b> **. \		Included with Above
7 DOO7 CHRONIUM	, s		Included with Above
8 D O O 8 LLAD			Included with Above
9 0 0 5 50	- <del>-   T</del>	S 0 1 D 8 0	
10 0 0 7			
11 0 0 0 8			
12 D 0 0 9 MERCUR			Included with Above
13		1 1 1 1 1 1 1 1 1 1	-
15			
16		<del>                                     </del>	· · · · · · · · · · · · · · · · · · ·
17			
18			
19		11111	
20			
21			
22			
<b>23</b>			
24			
25			
26 20 20 20 27		27 - 90 27 - 90 27 - 29	

 $(1, \dots, 1, n)$  , and we have  $(m, n) \in \mathbb{R}^n$ 

dour

# Facitity ID -- O'BRIEN CORP RERA ID #-- CADOOS 1300455 State CA

* * * EPA REGIONAL OFFICE * * *
File Review By: BKay Date 9/1185 Part A file
Permits By: MWW Date 1/15/15 @ B. Wilson  GW By: Date @
PermitsBy: MWWT Date 1/3/15 @ B. Wilson  GWBy: Date @  ComplianceBy: Date @  FinancialBy: nkb Date 9/13/25 @ Canalu TR punitum  OtherBy: Bray Date 9/18/5 @ R9 GW Facil Printout
* * * STATE OFFICE * * *
File ReviewBy: Date Date
Interviews  FermitsBy:  GWBy:  ComplianceBy:  Date
COMMENTS: Expect facility closed ( mactive) . Not family.
GWAP: not required Wells not required. GWM not applicable
(105:10 pond - will require PC permit
All Mutis left is NW heatment & dum storage
QC Review By : K Caracian DK Inconsistencies :
Deficiencies:

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF WASTE PROGRAMS ENFORCEMENT CONSOLIDATED LAND DISPOSAL DATABASE REPRESENTS REGIONAL DATABASE VALUES OF SORTED BY STATE, THEN FACILITY NAME.	REPORT: CONDAT10 PAGE: 411 RUN DATE: 09/04/85 O8/03/85 FOR REGION: 09 FOR STATE: CA
X RCRA ID NUMBER X X FACILITY INFORM X X NAME: O'BRI X CADO05130455 X X ADDRESS: 450 E X X X X SO SA XXXXXXXXXXXXXXXX X X COUNTY: 081 S X X ADDRESS: 450 E X SOUTH	TEN CORP THE X E GRAND AVE X AN FRANCISCO CA 94080 X X
	DISPOSAL: STORAGE: SO1 SO2 SO4 TREATMENT: TO1
II. C1105 RCRA PERMIT STATUS CODE:	1-INTERIM STATUS/PERMIT CANDIDATE
III. THIS FACILITY WAS FOUND IN:	BOTH UNIVERSES
IV. VERIFICATION THAT THIS IS A LAND DISPOSAL FACILITY:  *** NOTE: IF THE ANSWER IS "NO" DO NOT COMPLETE THE REST OF THE FORM.	YES YES, BUT IS UNDER REVIEW   NO (STATE REASON BELOW)
V. PART-B STATUS	NOT RECEIVED: None - (are closing)
VI. ORIGINAL CONGRESSIONAL SURVEY GWM WELL STATUS WAS:	GROUNDWATER MONITORING NOT REQUIRED.
VII. UPDATED GHM HELL STATUS:  - R96W Facil Printout indicates well sys inadeg  - 3 Ourface impoundments are currently being cloud  - ongoing clean up - se clean-up started 7/16/85	(CHOOSE ONLY ONE)  NO WELLS, BUT SHOULD HAVE,  (NOT IN COMPLIANCE);  WELL SYSTEM, INADEQUATE,  (NOT IN COMPLIANCE);  WELL SYSTEM ADEQUACY UNKNOWN,  (UNKNOWN COMPLIANCE);  WELL SYSTEM ADEQUACY UNDER REVIEW,  (UNKNOWN COMPLIANCE);  WELL SYSTEM IS ADEQUATE,  (IN COMPLIANCE);  NOT SUBJECT TO GWM REQUIREMENTS.
- De clien-up started 7/16/85  - how requested to be example from  God water monitoring regres & wells	oseful as a generalize - That approved

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF WASTE PROGRAMS ENFORCEMENT
CONSOLIDATED LAND DISPOSAL DATABASE
EPA FACILITY ID:CAD005130455 O'BRIEN CORP THE

REPORT: CONDATIO PAGE: 412 RUN DATE: 09/04/85

CONTINUED

VIII.	CURRENT GI	ועאטטא	NAIER	R MONITURING
	STATUS.			
	(COMPLETE	ONLY	ONE	CHOICE)

<b>+</b>
A: PART 265 DETECTION MONITORING;
B: PART 265 ASSESSMENT MONITORING;
C: NO GWM DUE TO 265.90(C) HYDRO-
GEOLOGIC WAIVER: BECAUSE:
(CHOOSE ONLY ONE)
1. WAIVER DEMONSTRATION
REVIEW NOT BEGUN;
2. WAIVER DEMONSTRATION IS
CURRENTLY UNDER REVIEW;
3. WAIVER DEMONSTRATION WAS
APPROVED:
ENTER DATE:/;
4. WAIVER DEMONSTRATION WAS
DISAPPROVED:
ENTER DATE:/;
D: GWM NOT REQUIRED, BECAUSE:
(CHOOSE ONLY ONE)
1. WASTE HAS BEEN DELISTED BY
STATE (BUT NOT BY EPA);
2. EXEMPTION DUE TO RECYCLE-
REUSE;
3. EXEMPTION DUE TO SURFACE
IMPOUNDMENT NEUTRALIZING
CORROSIVE WASTES;
4. EPA DELISTED WASTES;
5. OTHER, EXPLAIN BELOW
.!
6. EXEMPTION DUE TO WASTE PILE
NOT SUBJECT UNDER PART265;
7. EXEMPTION BECAUSE OF UIC;
8. EXEMPTION BECAUSE OF "CLEAN!
CLOSURE" UNDER PART 265.
E. NO WELLS, BUT SHOULD HAVE.
(ANSWER BY INTERVIEW ONLY)
A. YES;
l P NO.
] B. NO;
C. UNDER REVIEW.

A. YES; DATE RECEIVED: \_\_\_/\_\_/\_

B. NO.

IX. GROUNDWATER CONTAMINATION
A. HAS A RELEASE OF HAZARDOUS
WASTE FROM THE HAZARDOUS
WASTE LAND DISPOSAL UNITS
OCCURRED THAT SHOULD
TRIGGER ENFORCEMENT OF THE
ASSESSMENT MONITORING
REGULATIONS.

B. HAS THE FACILITY FILED A NOTICE OF SIGNIFICANT INCREASE.

nelita Elmore

REPORT: CONDATIO U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF WASTE PROGRAMS ENFORCEMENT PAGE: 413 CONSOLIDATED LAND DISPOSAL DATABASE RUN DATE: 09/04/85 EPA FACILITY ID:CAD005130455 O'BRIEN CORP THE CONTINUED X. COMPREHENSIVE GROUNDWATER +-----MONITORING EVALUATIONS (CME) 85 / 85 / 31 BY: \_\_\_ EPA ✓ STATE | A. DATE OF THE MOST RECENT \_\_\_ IS UNDER +-----CME AT THIS FACILITY? REVIEW; | HWDMS CME EVALUATIONS NO CME HAS+- - - -+- - - -\*\*\*NOTE: IF NO CME HAS BEEN BEEN DONE. | 850531 | \_\_\_ DONE, CONTINUE TO XI. B. WERE ANY CLASS-I GWM VIOLATIONS DISCOVERED YES DURING THE CME? XI. CONSIDERING ANY EVALUATION, (CHOOSE ONLY ONE ANSWER FOR EACH WHAT IS THE CURRENT COMPLIANCE STATUS FOR THE FOLLOWING GROUNDWATER AREAS: +-\_\_\_ A. IN COMPLIANCE; (FOR CLASS I VIOLATIONS ONLY) 1. HYDRO-GEOLOGICAL | \_x B. NON-COMPLIANCE; INFORMATION/STUDY ON \_\_\_ C. UNDER REVIEW. WHICH THE FACILITY BASED D. HAS NOT BEEN REVIEWED. ITS WELL STATUS: 2. NUMBER, LOCATION AND \_\_\_\_ A. IN COMPLIANCE; \_X B. NON-COMPLIANCE; CONSTRUCTION OF WELL SYSTEM: \_\_\_\_ C. UNDER REVIEW. \_\_\_\_ D. HAS NOT BEEN REVIEWED. \_\_\_ A. IN COMPLIANCE; 3. FACILITY SAMPLING AND I J B. NON-COMPLIANCE; of plan ANALYSIS PROGRAM: \_\_\_ C. UNDER REVIEW. \_\_\_ D. HAS NOT BEEN REVIEWED. XII. INTERIM STATUS C/PC REVIEWS <u>61 6185</u> BY: \_\_\_ EPA ∠\_ STATE A. DATE OF THE MOST RECENT INTERIM STATUS C/PC PLANS \_\_\_ IS UNDER ! AND COST ESTIMATES WHERE Closure Plan DOCUMENTS WERE FULLY REVIEW; | HWDMS CMEL DATA | NO C/PC | FOR C/PC EVALUATIONS | inclidin fart EVALUATED IN DETAIL. Afile \*\*\* NOTE: IF NO C/PC HAS REVIEW HAS+- - - -+- -(1/18/85) BEEN DONE, CONTINUE TO XIII. BEEN DONE. Interim states document inspection +-- - - - - -+-\_\_\_\_ A. YES B. WERE ANY CLASS-I VIOLATIONS DISCOVERED DURING REVIEW l <u>x</u> B. NO XIII. CONSIDERING ANY EVALUATION, FOR CLOSURE PLAN AND COST ESTIMATE: WHAT IS THE CURRENT I \_\_\_\_ A. IN COMPLIANCE; 1 x B. NON-COMPLIANCE; (estimate not submitted) COMPLIANCE STATUS FOR C. UNDER REVIEW; (waiting contil clear up

D. HAS NOT BEEN REVIEWED. is completed) THE C/PC DOCUMENTS:

· Closure plan rul. 6/16/85

(FOR CLASS I VIOLATIONS ONLY)

FOR POST-CLOSURE PLAN AND COST ESTIMATE!

. \_ . . . . . . . . . . . . .

I \_\_\_ A. IN COMPLIANCE;

| \_\_\_\_ B. NON-COMPLIANCE;

\_ C. UNDER REVIEW;

D. HAS NOT BEEN REVIEWED; E. ARE NOT REQUIRED.

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF WASTE PROGRAMS ENFORCEMENT CONSOLIDATED LAND DISPOSAL DATABASE EPA FACILITY ID: CAD005130455 O'BRIEN CORP THE

REPORT: CONDATIO PAGE: 414 RUN DATE: 09/04/85

CONTINUED

XIV.	FINANCIAL	ASSURANCE
	INSTRUMENT	rs.

• •

A. DATE OF THE MO		1 - 8		<u>5</u> ву	:	EPA 🖊	STATE
REVIEW OF FIN Assurance Dog	UMENTS WHERE	<u> </u>	IS UNDER	H	WDMS I	F/R EVALU	JATIONS
THE DOCUMENTS EVALUATED IN			NO F/R REVIEW HA	AS I			!- <b>-</b> !
*** NOTE: IF N DONE, CONTINU	IO F/R HAS BEEN Je to XV.	 	BEEN DONE	- •	50621	   850131	l   850129
B. WERE ANY CLASS		<u> </u>	YES	   	 YES	     YES	     YES
1 COMB BORING	THE NEVALE	<u> </u>	NO	i -		i	i 

XV. CONSIDERING ANY EVALUATION, WHAT IS THE CURRENT 6/5 COMPLIANCE STATUS FOR THE F/R DOCUMENTS:

(CLASS I VIOLATIONS ONLY).

## XVI. CLOSURE INFORMATION

- A. HAS THE FACILITY NOTIFIED TO CLOSE THE FOLLOWING: 1. ENTIRE FACILITY:
  - 2. THAT PART OF THE FACILITY WHICH IS SUBJECT TO GWM:
- B. HAS THE FACILITY CERTIFIED CLOSURE BY AN INDEPENDENT, PROFESSIONAL ENGINEER OF THE FOLLOWING:
  - 1. ENTIRE FACILITY:
  - 2. THAT PART OF THE FACILITY WHICH IS SUBJECT TO GWM:

## XVII. FUNDAMENTAL DISAGREEMENT

A. IS THERE A FUNDAMENTAL DISAGREEMENT BETWEEN EPA AND/OR STATE AND THE FACILITY REGARDING THE GWM STATUS. IF YES, PLEASE EXPLAIN IN THE COMMENT FIELD.

- not w, DOHS - issue w With Board

NO F/R REVIEW HAS BEEN DONE	HWDMS F	F/R EVALU	 
YES     NO	YES	YES	YES
A. IN COMP B. NON-COM C. UNDER R D. HAS NOT	PLIANCE. EVIEW;	VIEWED.	
 			Į.
<u>X</u> YES, DATE     NO. 	NOTIFIED Spring	183	_/ <u>83</u> ;   
YES, DATE	CERTIFIE	D/_	_/;
YES, DATE   <u>      N</u> O.	CERTIFIE	D/	_/;
YES (EXPLA   NO.   COMMENTS:		MMENTS B	ELOW)      

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF WASTE PROGRAMS ENFORCEMENT
CONSOLIDATED LAND DISPOSAL DATABASE
EPA FACILITY ID:CAD005130455 O'BRIEN CORP THE

REPORT: CONDAT10 PAGE: 415 RUN DATE: 09/04/85

CONTINUED

XVIII. FOR FACILITIES WITH CLASS-I VIOLATIONS IN THE AREAS OF GWM, CLOSURE/POST-CLOSURE OR FINANCIAL RESPONSIBILITY, WHAT IS THE ENFORCEMENT STATUS?

	DATE	<b>I</b> GWM	CPC FR	1			İ	DATE	< COMPLIA	1	ACTUAL	BY	SC	HED
	850621		x	NO	ORDI	ERS	FND			-		BLANK	Y	N
~	850618	X		13-	-NOV	ΤO	STA	850619	850725			OVRSITE	Y	N
	850531	X		NO	ORDI	ERS	FND					BLANK	Y	N
	850131		X	NO	ORDI	ERS	FND					BLANK	Υ	N
	850129		X	NO	ORDI	ERS	FND					BLANK	Y	N

## EPA REGION IX - RCRA VERIFICATION CALL SHEET

CALLER: MARCIA PUKACH										
CALL DATE/TIME: 9 /8/82										
CALL STATUS: INCOMPLET & See Comments										
EPA I.D. NUMBER: <u>CAD005130455</u>										
FACILITY NAME/ADDRESS: THE O'BRIEN CORPORATION										
450 EAST GRAND AVENUE										
SOUTH SAN FRANCISCO CA 94080										
TELEPHONE NUMBER: 415/761-2300										
FACILITY CONTACT: NAME: MICHAEL BURDINE										
TITLE: SNAWER										
RESPONDENT (OTHER): NAME:										
TITLE:										
// NEW FACILITY CONTACT										
1. The first set of questions relate to the operational status of your hazardous waste facility:										
Fully operational  Closed or closure imminent  Closure plan filed with EPA  Sold; EPA notifiedYN  Small quantity generator; EPA notified on  Generator accumulating waste on-site for less than 90 days  Elementary neutralization unit  Totally enclosed treatment facility  Wastewater treatment unit  Process exempt due to the mixture rule  Permit by rule:UIC,POTW,Ocean disposal										

2.a. Our Part A application file indicates the following processes are now in place at your facility. Please answer "yes" or "no" to each.

			Respo	nse
Process	<u>Code</u>	Part A	Yes	No
Storage-Container	S01	/		
Storage-Tank	S02			
Storage-Waste Pile	S03			
Storage-Surface Imp.	S04			
Treatment-Tank	TOl			
Treatment-Other	T04			
Treatment-Surface Imp.	T02			
Treatment-Incineration	T03		•	
Disposal-Inj. Well	D79			
Disposal-Landfill	D80			
Disposal-Land Applic.	D81			
Disposal-Ocean	D82			
Disposal-Surface Imp.	D83			

2.b.	Are th	ere	any	other	haza	rdous	waste	man	agemei	nt p	rocesse	es now	in	place
	at you	ır fa	acili	ity?	Y	N	Ιf	yes,	what	ar e	they?			
		_												

3. Further, our Part A application file indicates the following design capabilities. Please indicate corrections as applicable.

Process Code	<u>Part A</u>		Response	
S01	8,000	G		G
S02	55,000	G		G
S03	<del></del>	Y		Y
S04	72,000	G		G
T01	5,000	GPD		GPD
T04	<del></del>	GPD		GPD
T02		GPD		GPD
<b>T</b> 03		GPH, TPH		GPH, TPH
D79		G		G
D80		A-F		A-F
D81		A		A
D82	<del></del>	GPD		GPD
D83		G		G

4.	Follow-up	questions:						
	<u>số2, Tố1</u> :	Are tanks:		_	Accessitor Inspec			
		Above ground Below ground Both				xxx		
	<u>T04</u> :	Please identi under process			treatmen	nts you ha	we which co	me 
	<u>só4, T02, D8</u>	0,D81, D83:	system monitor a waive require (FOR CA o If imp Com o Do	() or ring system of the ements (_A. FACIL: you are posed or ntrol Body you curi	tem ()? ITIES ONI using a granted ard? rently ha	ternate gr ) or have water moni LY) waiver, w by the Re	was it self- egional Wate _N Discharge	ned
5.	indicates	FEDERAL FACILI that the facil Y N I	ity is	a federa	l facili	ty. Is th	nat	
6.	Have you e	ver submitted	an amen	ded Part	A which	reflects	changes in:	
	Proce	es Handled ess Codes n Capacity	Yes	<u>No</u>				
/7.	Is your fa	cility:						
	•	mile of a vater source		Yes	<u>No</u>	Unknown		
	Within a l flood plai	_						

Located on Indian lands

y 8.a.	Our Part A application file indicates that the following wastes are handled at your facility. Please answer yes or no to each. (Read list from page 3 of Form B. Indicate below all wastes to which respondent answers "no.")
b.	(For "P" and "U" wastes) Do these "wastes" represent inventories of raw materials?YN
∫ <sup>9</sup> •	Verify the mailing address:
	COMMENTS
K078, +	6079, KO81, KO82 - All deleted wastes.
Reguo	ato must be in writing to Michael Budine. injudies is correct.

anued from the tront.		
.v. DESCRIPTION OF HAZAR LUS WASTES	finued)	
E. USE THIS SPACE TO LIST ADDITIONAL Ph.	CESS CODES FROM ITEM D(1) ON PAGE 3.	•
•		
EPA I.D. NO. (enter from page 1)		
FCAD00513045576		
FCAD00511304556		
V. FACILITY DRAWING		
All existing facilities must include in the space provided of	n page 5 a scale drawing of the facility (see instructions	for more detail).
VI. PHOTOGRAPHS		
All existing facilities must include photographs (as		
treatment and disposal areas; and sites of future st	orage, treatment or disposal areas (see instruction	ns for more detail).
VII. FACILITY GEOGRAPHIC LOCATION		
LATITUDE (degrees, minutes, & secon	ds) LONGITUDE	(degrees, minutes, & seconds)
3 7 3 8 5 6	1 12	
65 66 67 68 60 - 71	77 -	74 78 76 77 - 79
VIII. FACILITY OWNER		
A. If the facility owner is also the facility operator a	s listed in Section VIII on Form 1, "General Informatio	n", place an "X" in the box to the left and
skip to Section IX below.		
B. If the facility owner is not the facility operator a	s listed in Section VIII on Form 1, complete the follow	ing items:
I NAME OF FAC	ILITY'S LEGAL OWNER	2. PHONE NO. (area code & no.)
1. NAME OF FAC	ILITY'S LEGAL OWNER	2. PHONE NO. (area code a no.)
E		
3. STREET OR P.O. BOX	4. CITY OR TOWN	59 95 - 99 99 - 61 92 - 6 5. ST. 6. ZIP CODE
3. STREET OR P.O. BOX	С	
F	G	
IX OWNER CERTIFICATION	45 115 116	40 41 42 47 - 31
gertify under penalty of law that I have personal	ly examined and am familiar with the information	n submitted in this and all attached
Hocuments, and that based on my inquiry of those		
submitted information is true, accurate, and comp	lete. I am aware that there are significant penaltic	
Including the possibility of fine and imprisonment	•	
A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
E.P. DALY	EP Daly	1/13/8/
2.7. 211-7	61 Waly	1 //3/8/
X, OPERATOR CERTIFICATION		
ertify under penalty of law that I have personal	y examined and am familiar with the information	n submitted in this and all attached
documents, and that based on my inquiry of those	individuals immediately responsible for obtaining	g the information, I believe that the
aubmitted information is true, accurate, and comp		es for submitting false information,
including the possibility of fine and imprisonment		
A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
E. P. DALY, VICE PRESIDENT	B. SIGNATURE	NOVEMBER 14, 1980

EPA Form 3510-3 (6-80)

PAGE 4 OF 5

If a container of unknown material is discovered, the outside of the container should be carefully inspected to determine if any markings remain which would give a clue to its contents. At the SSF O'Brien Plant such materials can be reasonably expected to be either pigments, resins, solvents, resins in solution, miscellaneous chemicals or paint.

Visually inspect the unknown to determine if it is powder, liquid, or solid. The physical form and color of a powder can often be used by a person familiar with the raw material we use to determine the approximate chemical composition.

If the unknown is a liquid (the most probable case) note the color and consistency, also note any odor (solvent, amine, etc.). Sample from the top of the container and:

Run pH to determine if it is corrosive.
Run Flash Point to determine if flammable.
Run Ga's Chromatograph to determine percentage of
water and solvent.
Run infrared spectra to determine chemical composition of any non-volatile present.

If the results of these tests do not positively identify the material, mix the contents thoroughly and:

Run Non-Volatile content.

Run percent pigment.

Run infrared on liquid to determine chemical identity of any soluble portion.

Extract pigment and determine percentage of Lead, Chromium Zinc, Barium, Cadmium and Mercury. Arsenic, Selenium, Silver or pesticides would not be expected under normal usage at this plant.

Classify the material as hazardous if it meets any of the \_EPA criteria for corrosive, ignitable, toxicity or reactivity or if it meets the California criteria for a hazardous waste.

If the unknown is a powder, determine if it is soluble in solvents, (resins) or insoluble (pigments).

Run an infrared spectra on soluble materials to determine resin type.

For insoluble materials determine by chemical analysis if it is silicaeous, carbonate or oxide if white or colorless; Iron, Lead, Chromium, Zinc or organic if colored. Determine if it meets the EPA criteria for Toxic.

Once the waste has been analyzed and declared to be hazardous, samplings are made for future analyses to insure that the hauler's manifests are correct. Repeat analyses are deemed to be necessary annually because our outgoing wastes are essentially the same from day to day. However an analysis can be repeated any time it is thought to be necessary for Compliance with the California DOHS.

The analysis of pond bottoms has been done and the materials found therein contained enough lead and barium to be classified as hazardous.

The use of the ponds to concentrate the wash water from the Trade Sales factory has been discontinued (1981) and so the analysis of the hardened sludge in the ponds remains constant. Monitoring wells have been dug on the south side of these ponds to determine if leaching of heavy metals may be getting into the water underground. There is sufficient evidence that this is true and so plans are being formulated to dig out the solid materials from the ponds until soil analysis shows that the concentrations of the heavy metals has dropped to a safe limit. This part of hazardous soil removal is being monitored by the Woodward-Clyde Consultants.

After pond closure, the latex paint wash water from the Trade Sales factory was pumped to the two treatment tanks in the vicinity of the ponds. Here the water will be treated with alum to settle out the pigments and resins and with a neutralizing agent to adjust the pH of the separated water to approximately 7 so that it will be acceptable for entry into the S.S.F. sewer system. The sewer people have their own monitoring system that records changes in pH or in the solids content of the effluent. In case the monitor dictates that the concentrations are not acceptable, the S.S.F. Sewage Dept will telephone us or otherwise alert us as to the undesirable condition.

When the sludge level in the sedimentation tanks reaches the halfway mark the valve at tank bottom is connected to a 3" hose with air pump to remove the slurry-type sludge to open head drums that are lined up some 25 feet from the tank. These drums are on solid concrete and they are moved (after filling) by forklift, over continuous concrete pavement, to the hazardous material drum storage area. These filled drums are immediately labeled with hazardous stickers. A composite sample is taken by agitating the drums and taking a small portion from at least 10 of the sludge-bearing drums. When we have about 70 drums ready to go (usually 30 to 60 days) all of the drums will be hauled to a class I dumpsite. A new analysis is performed at any time that the hauler or the dumpsite demands such. However, as mentioned earlier, our sludge composition from the sedimentation tanks comes from the same source and is essentially the same at each sampling. While the Company has an Infrared Spectraphotometer for use in analyses, the usual procedure is to send such samples out to an independent laboratory.

We also have waste from the filter presses of the resin plant. These filter papers are used to filter out any solid material from the hot resin solution made in the stainless kettles. The resin material is generally a solution of glycerol phthalate resin dissolved in mineral spirits. In the process, "skins" are formed on a tank surface of the material and the filters remove such. These filter papers are collected in closed containers (containers that are closed after the papers are entered). The analysis of these papers is almost identical from month to month. They are considered hazardous because of the small amount of retained solvent, usually mineral spirits.

Copies of all"transport of hazardous wastes"from this facility are retained in the form of manifests kept at the facility.









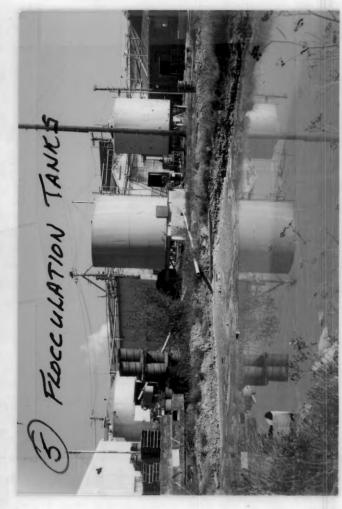


photo # / date: /2-/8-85

description:

OF SLUDGE TANK

CAMLOCK IS ATTACKED

TO MOSE TO PUMP SLUDGE

INTO DRUMS



photo # 2 date: /2-18-85

description:

SUMP TO CITY SEWER

TNIS SUMP IS ADJACENT TO THE SLUDGE TANK



photo #3 date: /2-/8-85

description:			
POND AREA IN EXCAVATION	on I		
FOR A CLEAN CLOSURE			
S. E. VIEW			
de alta de la companya de la company			
NOTE DRUMS OF CONTAMIN	MATEO	100	
POND 50/1			
		多为企工	
		4	
photo # 4 date: /2-18-85			
description:			
SOUTH VIEW OF ABOVE			
		-700-2	
	- AULI		
			The state of

photo # date: /2-/8-85	
description:	
POND AREA S.W. VIEW	
NOTE EXCANATION WORK	
photo # 6 date: /2-18-85	
description: SAME AS ABOUE	
374112 13 7 4 4 4	

7			
photo # 7 date: /2-/8-85 description:			
S. E. VIEW OF CONTAINER			
STORIGE AREA			
photo # 8 date: /2-18-85			
description:			
CONTAINTER STORAGE AREA		- III	A
NOTE DESIN GOES TO			
SEWER-			
	- 4		
	1		

photo # / date: /2-/8-85 description:	+	ı
PORTAINERS IN STORPLE		
photo # 10 date: /2-18-85		
description: WEST VIEW OF SOUTH APGE		
OF CONTAINER STORAGE ARE		
NOTE TWOT BOUNDARY FENCE IS DOWN		1
LENUL 13 MUNIO		1

photo # // date: /2-/8-85	
description:	
SOUTH VIEW OF WEST SIDE	
OF CONTAINER STORAGE AREA	
NOTE DRAIN GRATE	
photo # 12 date: /2-18-85	
description:  BREAK IN BERM AT	
SOUTH EDGE OF CONTAINER	
NOTE WALL OF BURIED DRUMS	

photo # 13	date: /2-/8-85
description:	
AFFF EXTI	NGUISHER IN
THE SPICE	KIT AFEA
NOTE TWAT	THIS UNLT
SHOWS NE	ED TO BE
CNARGED	



photo # 14	date: /2-/8-85
description	:
ABOUL	UNIT -
ADTL -	THAT LOST FIRE
1AGO	INSPECTION IS



photo # 15 date: 12-18-85			
description:  RALPH ON HIS FORKLIST	THE		
NOTE CONTAMINATION ON THE FORKLIFT	Yale		
		7	
photo # 16 date: /2-/8-85 description:  FORKLIFT AFTER DECONTAIN			





312-RO9042 (5.01)

#### RESOURCE CONSERVATION AND RECOVERY ACT

Sampling Plan

The O'Brien Corporation
450 Grand Ave., South San Francisco 94080
Case Number LV1R03
February 19-22, 1991

Sampling Plan Author: Katherine J. Baylor X 744 1490

Laboratory Support Section Environmental Services Branch

U.S. Environmental Protection Agency

#### 1.0 OBJECTIVE

The objective of this investigation is to collect and analyze groundwater, soil, and surface water to determine compliance with RCRA hazardous waste regulations at the O'Brien Corporation paint production facility in South San Francisco. Monitoring of groundwater in wells near three closed surface impoundments has indicated elevated levels of lead (above the MCL). Additionally, soil sampling both on and off-site has revealed elevated levels of lead and zinc. During this sampling effort, the Environmental Services Branch of Region 9 EPA will sample the on-site soil and groundwater, as well as SF Bay water in an effort to determine the source of lead contamination.

The information derived from this monitoring effort will be useful to EPA Region 9, the California Department of Health Services, and the Regional Water Quality Control Board in determing future action at the facility. The sampling event is planned for February 19-22, 1991, and will include a total of 30 samples: seven groundwater, nine surface water, ten soil/sediment, two water blanks, and three duplicates (one each for groundwater, surface water, and soil). Additionally, there will be three lab QC samples (one for each matrix). This one-time sampling event is designed to meet the following objectives:

Determine the levels of contamination of lead and zinc in soils and groundwater on site to evaluate compliance with RCRA hazardous waste regulations.

Determine the levels of contamination of lead and zinc in near-shore San Francisco Bay water.

#### 2.0 SITE BACKGROUND

#### 2.1 Site Description

The 26 acre facility is located approximately one mile east of Highway 101 at the eastern terminus of Grand Avenue. The eastern boundary of the facility abuts the San Francisco Bay (Figure 1).

The surrounding property is entirely industrial and includes a seawater salt recovery facility (Marine Magnesium), an inactive Class III landfill and several light industry facilities. Historically (prior to the 1930's) the area included a pottery factory, a meat processing plant, and other heavier industries. The Class III landfill may have received hazardous wastes.

The facility was operated for paint production by W.P. Fuller from 1898 until 1968, and by O'Brien from 1968 until the present. The facility manufactures a wide variety of paints and coatings, as well as alkyd and emulsion resins for paint production. The facility generated wastes that were ignitable and EP toxic for lead, chromium, mercury, and barium.

The only EPA-regulated hazardous waste management units at the facility are three closed surface impoundments (physical closure in 1985, certified 1988) that received paint production sludges EP toxic for lead. The DHS-approved closure plan for these units required removal of all soil containing greater than 200 mg/kg lead (i.e., considered a clean closure by DHS). In addition to the regulated units, 25+ Solid Waste Management Units (SWMUs) have been identified at the site, which include a breakwater comprised of debris-filled drums, and inactive tank farm area, a suspected former landfill, inactive sewer outfalls, a contaminated off-site fill area and numerous old process areas (Figure 2 and Table 1).

#### 2.2 Environmental Concerns

Facility operations have resulted in releases to groundwater, soil and probably surface water (San Francisco Bay). Groundwater monitoring since 1983 in wells downgradient of the surface impoundments has yielded lead as high as 1.9 mg/l (as compared to 0.05 MCL). Elevated lead has also been detected in upgradient wells (up to 0.1 mg/l). The most recent groundwater analyses for the surface impoundments, however, have yielded dissolved lead in downgradient and upgradient wells near the MCL.

Groundwater analyses from well MW-21 (suspected former landfill area) have yielded elevated levels of lead, barium, toluene, and napthalene. Soil sampling at the site has yielded significantly elevated lead at many locations (37,000 mg/kg-warehouse area; 42,000 mg/kg-breakwater area; and >20,000 mg/kg-offsite fill area). Analyses of SF Bay water immediately offshore have yielded dissolved lead in the 0.2-0.3 mg/l range (4-6X MCL). The facility contends that these elevated SF Bay water lead levels are the result of urban run-off and atmospheric deposition.

#### 2.3 Potential Receptors

Releases from the facility will migrate toward San Francisco Bay and potentially threaten a variety of aquatic species. Although no water supply wells are located near the site (the grounwater is saline and non-potable), exposure to hazardous constituents could occur through recreational use, or possibly through the consumption of fish. Ingestion of contaminated soil (dust) may be occuring off-site, as motorcyclists have been observed in the eastern portion of the inactive landfill area (despite the presence of a fence.)

#### 3.0 FIGURES AND TABLES

Fig 1. Site Location

Fig 2. Site and Units (SWMUs)

Fig 3. Location of Sampling sites

Table 1. SWMUs and Areas of Concern

Table 2. Sample Locations and Analyses

Table 3. Request for Analysis (water)

Table 4. Request for Analysis (soil/sediment)

### 4.0 RATIONALE FOR SAMPLE LOCATIONS, NUMBER OF SAMPLES, AND ANALYSES

To date, approximately 15 shallow monitoring wells have been installed at the site. Shallow groundwater is at an average depth of 5-10 feet below the ground surface, and the water is highly saline and non-potable due to the proximity of the site to San Francisco Bay. Seven of the monitoring wells will be sampled for lead and zinc. Although lead and zinc are the contaminants of interest for this sampling event, several other chemicals (including barium, toluene, napthalene, chromium, and mercury) have been detected in previous groundwater monitoring; therefore, three of the wells will be sampled for VOAs, BNAs, and metals on the Target Compound List (TCL) listed in Appendix A using RAS methods. The wells chosen (MW-11,19,21) have shown elevated levels of organics in previous monitoring. Sampling locations are listed in Table 2.

Several areas at the O'Brien facility have been identified as having high levels of soil contamination ("hot spots") due to previous releases of contaminants. The hot spot locations were chosen based on known or suspected sites of previous contamination. The RCRA RPM will be on-site when soil sampling is to take place to determine where previous samples were taken. Based on historical evidence of compounds found at the facility, three of the hot spots will be sampled for VOAs, BNAs, and metals on the Target Compound List (TCL) listed in Appendix A using RAS methods. Additionally, three other facility soil samples and four Bay mud samples will be taken for lead and zinc.

The main objective of this sampling effort is to support efforts by the RCRA Waste Compliance Branch (H-4-4) to determine the source of high lead concentrations on site, whether from the site or from the Bay. Therefore, samples of nearshore SF Bay water will be acquired. Nine water samples will be taken; two of the sites will be sampled at high and low tide. Although representative of tidal fluctuations, the samples are not representative of seasonal or depth variability. As this is just a one-time sampling effort, seasonal variations will not be accounted for. Sampling at depth is limited by the lack of a boat. All nine samples will be analyzed for lead and zinc; two samples in San Bruno Channel (see figure 3) will be sampled for VOAs, BNAs,

and metals on the Target Compound List (TCL) listed in appendix A using RAS methods. The rationale for sampling at high and low tide is to measure the extremes of any possible tidal influence: high tide represents the SF Bay water flowing toward the facility and low tide represents water flowing away from the facility. Two sites, north and south of the facility, will be sampled for reference levels of metals.

All water samples will be analyzed for total and dissolved metals for comparison to previous analyses mandated by EPA at the site. Five soil samples will be analyzed for Toxicity Characteristic Leaching Procedure (TCLP) metals to determine leachability of metals on site. Previous sampling included EP toxicity testing, which has been replaced by TCLP.

#### 5.0 REQUEST FOR ANALYSIS

Nine water samples, including two blanks and two duplicates, will be analyzed for RAS metals (total and dissolved), RAS volatile organics, and RAS semi-volatile organics using EPA methods 624 and 625 (organics) and any approved EPA method for metals to meet requested detection limits listed in appendix A for the Target Analyte List (TAL). A tabular form of the Request for Analysis is shown on Table 3.

Eleven water samples will be analyzed for metals (total and dissolved) using any approved EPA method to meet detection limits listed in appendix A.

Five soil samples, including one duplicate, will be analyzed for RAS metals, TCLP metals, RAS volatile organics, and RAS semi-volatile organics using EPA methods 8240 and 8250 (organics) and any approved EPA method for metals to meet requested detection limits listed in appendix A for the Target Analyte List (TAL).

Five soil samples will be analyzed for metals using any approved EPA method to meet detection limits listed in appendix A. One of the five soil samples will be analyzed for TCLP metals in addition to total metals. A tabular form of the Request for Analysis is shown in Table 4 (soils).

#### 6.0 FIELD METHODS AND PROCEDURES

#### 6.1 SAMPLE COLLECTION

#### 6.1.1 Groundwater Monitoring Well Sample Collection

Seven monitoring wells will be sampled at the O'Brien site. Samples will be collected using a bailer due to shallow groundwater levels (approximately 5-10 feet).

The step-by-step procedure for collection of groundwater samples from monitoring wells is described below.

- 1. Determine the depth to groundwater with a well sounder. Lower the sounder slowly to the water level. Record the depth to water to the top of the well casing. If there is no measuring point on the casing, measure the depth on the north side of the casing. Measure the depth to the nearest 0.01 ft. Reconfirm the measurement before reeling up the sounder. If the total depth of the well is unknown, lower the sounder until it hits the bottom of the well. Use care in determining the bottom of the well because the slight buoyancy of the sounder in water makes detection of the bottom difficult to determine. Raise and lower the sounder to confirm that it has hit the bottom. Take the measurement as above.
- 2. Calculate the volume of water standing in the well in gallons (Vgals).

 $Vgals = 0.0408 \times D(in)^2 \times L(ft) = One Well Volume$ 

- D = diameter of the casing in inches
- L = length of water column in the well in feet (obtained by subtracting the depth of the well from the static water level).
- 3. Purge at least three well volumes using a bailer. When using a bailer, use clean nylon rope to lower and raise the bailer. Never allow the line to touch the ground.

Collect the purge water into a measured bucket to record the volume purged. Purge from the bottom of the screened interval if the well is low yielding. At the start of purging and after every well volume, measure the temperature, conductivity and pH of the purge water. These measurements must stabilize within 10% over two successive well volumes. Record the depth to water after purging is complete.

If the well recharges slowly, allow it to recover to 75% its original depth or for two hours, which ever comes first, before collecting a sample.

For low yielding wells, evacuate the well to complete dryness once, and calculate the recharge rate. If the recharge rate exceeds 2 hours, allow the well to recover for up to 24 hours, record the depth to water, and then collect a sample. If the recharge rate remains less than 2 hours during purging, then continue purging until stability is met and at least three well volumes have been purged. Allow 75% recovery before sample collection if the recharge rate is less than 2 hours.

- 4. Prior to sample collection lay down a clean plastic sheet around the well head. Samplers must put on clean latex gloves at each sampling point.
- 5. The bailer sampling method is outlined below.

#### BAILERS:

Collect a sample by lowering into the well a decontaminated teflon bailer with a clean nylon line. If necessary, use a tripod stand to raise and lower the bailer. Never allow the bailer line to touch the ground. Submerge the bailer in the middle of the water column before raising it up. Release the water from the bailer with a bottom control flow device. Two such devises will be used. One is a teflon or tygon tube with notches cut into the top. This tube is inserted into the bailer bottom check ball to allow water to exit the bailer. For sampling volatile organics, a stopcock device will be inserted into the bottom check ball. This device allows for a flow rate of less than 100 ml/minute.

- 6. Fill up the VOA vials first. Check for air bubbles in the VOA vial by turning it upside-down and tapping the side of the bottle; pin-size bubbles are acceptable. If bubbles are present, open the vial and top it off. Check for bubbles again and top off the vial a second time if necessary. If bubbles persist, discard the sample and collect again after first adding acid. If the bubbles are the result of effervescence in the water, record this in the field notes. Collect all other samples by filling up the bottles so that at least a small head-space remains. If the well is low yielding, collect the metals analysis first, since lead and zinc are the primary contaminants of concern in this sampling effort. It may not be possible to collect a complete sample volume. Record in the field notes if a complete sample is not collected. Wipe the outside of the bottles with paper towels after collection.
- 7. Measure pH, conductivity, temperature and turbidity from the last sample volume. Collect the samples in a decontaminated beaker.
- 8. Preserve all samples according to Section 6.5.
- 9. Complete documentation according to Section 6.7, and package and ship samples according to Section 6.6.

#### 6.1.2 San Francisco Bay Water Sample Collection

A total of nine water samples will be collected from the facility and the nearshore area; High tide samples must be taken at or slightly before the peak high tide (flood tide) and low tide samples must be taken at or before peak of low tide (ebb tide). Water depths should be at least two feet deep to minimize bottom sediment loading effects. The use of chest waders constrains the maximum water depth to approximately four feet to avoid a safety hazard to the sampler caused by flooding of the waders. The following procedure will be followed:

- 1. Carefully wade out to the designated sampling point, where the water depth is between two and four feet. Care must be taken to avoid stirring up bottom sediment.
- 2. Place the mouth of the sampling bottle facing flow at a depth of 0.4 to 0.6 of water depth with the hands as far from the mouth of the bottle as possible. Fill the bottle to the neck, allowing a small amount of headspace for mixing.
  - 3. Preserve all samples according to Section 6.5
- 4. Complete documentation according to Section 6.7, and package and ship samples according to Section 6.6.

#### 6.1.3 Surface Soil/Bay Sediment Sample Collection

At each soil/sediment location, a sample will be collected by use of a trowel or hand auger. One sample will be collected at the center of each hot spot, or where there are visible signs of contamination within the hot spot (to be determined in the field by the RPM). All sample locations will be clearly identified in the field notebook and on a map of the facility. Each soil sample will be collected using the following procedure:

- 1. Clear away any vegetation and rocks (1" dia or greater). Lay down plastic or a board down to kneel on in contaminated areas. Mark out a 1 foot diameter circle.
- 2. With a clean trowel, collect the soil to a three inch depth and place it into a paper bucket.
- 3. Thoroughly mix the soil in the bucket using the trowel. Fill the bottles using the trowel, and wipe the outside of the bottle after sample collection. Exclude small rocks and pebbles, if possible.
  - 4. Ice the samples.
- 5. Complete documentation according to Section 6.7, and package and ship samples according to Section 6.6.
  - 6. Place any unused soil back into the hole.

#### 6.1.4 Subsurface Soil Sample Collection Using a Hand Auger

At any soil sampling site where use of a trowel is unacceptable, or where sampling to a depth of several feet is requested by the RPM, a hand auger will be used. The procedure is outlined below:

- 1. Using a clean hand auger, begin augering at the center of the area where the surface soil was collected. Auger down to 1 foot below ground surface and remove the soil and place it to the side. If soil falls back into the hole, try to remove this with the auger, a trowel or a spoon.
- 2. Advance the auger beyond the one foot mark enough to fill the auger bucket. Remove the bucket slowly from the hole so as not to lose the sample. Empty the auger bucket into a paper bucket using a trowel and thoroughly mix the soil in the bucket using a trowel. Fill the bottles using the trowel, and wipe the outside of the bottle after sample collection. Exclude small rocks and pebbles from the sample, if possible.
  - Ice the samples.
- 4. Complete documentation according to Section 6.7, and package and ship samples according to Section 6.6.
  - 5. Place any unused soil back into the hole.

#### 6.2 DISPOSAL OF CONTAMINATED MATERIALS

All purge water from monitoring wells with historically low levels of lead (at or near MCL) will be disposed of on-site into the municipal sewer system. Purge water from monitoring wells with historically high levels of lead (well MW-21) will be disposed of in the same manner as the purge water from previous groundwater sampling by the PRP. The RPM will contact the facility before sampling begins to determine the location of purge water disposal. If the waste water treatment facility on-site is capable of handling expected contaminant levels, the purge water will be disposed of on-site. If not, the South San Francisco Sewage Treatment Plant will be contacted to determine their effluent limitations. As a last resort, the purge water will be saved at the Alameda field staging area until sample results are obtained from the lab, and then disposed of in compliance with all local, state, and federal regulations.

SF Bay water will not be collected in excess; therefore, no disposal will be necessary.

Soil collected during sampling that is not sent to the lab will be placed back in the hole.

#### 6.3 DECONTAMINATION

Prior to sampling and between uses of sampling equipment, all equipment used during sampling or purging will be decontaminated.

Decontamination will be done, if possible, at the Alameda Field Staging area at the end of each sampling day to ensure sufficient clean equipment available for the following day. The sampling team will attempt to have on hand enough bailers so that any one bailer is only used once during the sampling day. The following decontamination procedure will be used at the Alameda facility for all equipment used for inorganic sampling except the well sounder:

- 1. Wash with phosphate-free detergent (Alconex)
- Rinse with deionized water
- 3. Rinse with 10% acid (HNO3 or HCl) solution to remove metals
- 4. Rinse with deionized water
- 5. Shake off excess water
- 6. Wrap decontaminated equipment with aluminum foil or plastic bags.

Any equipment used in organic sampling will include an acetone rinse and organic-free water rinse after the second DI water rinse (step 4). The well sounder will be rinsed with deionized water after each use.

#### 6.4 SAMPLE CONTAINERS

The Request for Analysis Tables (Tables 3,4) lists all the containers that will be used for this sampling. All containers have been cleaned by the supplier and QC checked.

#### 6.5 SAMPLE PRESERVATION

<u>Volatile Organics:</u> Add two drops 1:1 HCl to each VOA vial prior to sample collection. Cool the sample to 4 OC immediately after sample collection.

Metals: Add nitric acid (HNO3) to a pH of less than 2 after sample collection. Check the pH by pouring a small amount of sample into the bottle cap and checking the pH with pH paper. Discard the liquid in the cap after checking pH.

<u>All Other Analyses:</u> Cool all other samples to 4<sup>O</sup>C with ice immediately after sample collection.

#### 6.6 SAMPLE PACKAGING

The following sample packaging and shipment procedures will be followed for low level samples to ensure that samples are intact when they arrived at the designated laboratory:

- 1. Place a custody seal over each bottle cap, except with VOA vials the custody seal must be wrapped around the cap. Wrap glass bottles with bubble-wrap and tape.
- 2. Place each individual bottle or a small set of bottles in a plastic bag and seal the plastic bag shut. Label the bag with the sample number(s) that appears on the bottle(s) inside.
- 3. Place the protected bottles in the appropriate ice chest. If the samples are required to be chilled, add ice in a double-bag (to prevent leakage) to maintain the proper temperature inside the ice chest. Change the ice prior to shipment as needed. Store the ice chest in a shady location. Loose ice must not be poured into the cooler.
- 4. Fill empty spaces in the ice chest with either pelaspan (styrofoam popcorn) or bubble-pack wrap (not required with plastic bottles). If there is a lot of space in the cooler, the samples and ice can be placed inside a large trash bag to minimize movement of the samples during shipment.
- 5. Enclose the chain of custody form and other sample paperwork in the ice chest by placing it in a plastic bag and taping the bag to the inside of the ice chest lid.
- 6. Seal the ice chest shut with strapping tape. Place two custody seals on the front of the cooler so that the custody seals extend from the lid to the main body of the ice chest. Place clear tape over each custody seal on the outside of the ice chest. Be sure the drain plug is closed and sealed shut if necessary.
- 7. Label ice chests with "Fragile" and "This End Up" labels. Include a label on each cooler with the laboratory address and the return address (Region 9 office).
- 8. Ship ice chests to the appropriate laboratory via express overnight delivery. If samples are shipped on Friday, arrangements must be made with the RSCC by Friday noon for Saturday delivery.
- 9. Call the RSCC within 24 hours after sample shipment to report the shipments made.

#### 6.7 FIELD DOCUMENTATION

Field Log Sheets and Notebooks: A summary of sampling activities will be recorded in a bound field notebook which will be the responsibility of the field team leader. Entries to the notebook or log sheets must be dated, legible, written in permanent ink, and contain accurate and inclusive documentation of project activities. Language should be objective and factual.

Entries must include:

- All personnel on the sampling team.
- Signatures of persons making log entries.
- General descriptions of weather conditions.
- Location of each sampling point.
- Volume of water purged from wells, including date and time from start to completion of purging.
- Date and time of sample collection.
- The type of blank collected and the method of collection.
- Field measurements made, including the date and time of measurements.
- Calibration of field instruments.
- Reference to photographs taken.
- Date and time of equipment decontamination.
- Field observations and descriptions of problems encountered.
- Duplicate sample location.

Persons making entries into the field notebook must initial each page or part of a page that they make an entry to.

<u>Photographs</u>: Photographs will be taken at each sampling point. The photo location and number will be recorded in the field notebook.

<u>Paperwork</u>: Chain of custody forms and field QA/QC summary forms will be completed for all samples collected. A chain of custody form will be completed for each cooler. Custody seals will be signed and dated by a member of the sampling team.

<u>Sample Labels</u>: Each bottle will be labeled with a preprinted label that includes the case number, the station location, the analytical parameter, the date and time sampled, and any preservative added to the sample.

#### 6.8 QUALITY CONTROL SAMPLES

#### 6.8.1 <u>Field Duplicates</u>

Duplicate sample will be collected at a 10% frequency. Since there are ten or fewer samples planned for groundwater, soil, and surface water, one duplicate will be collected for each matrix, resulting in a total of three duplicate samples. Duplicates will be collected at sampling points which are known or suspected to be contaminated.

Duplicates will be collected by filling the bottles for each analysis simultaneously. Fill all bottles for one analysis before filling any bottles for a second analysis. Each sample from a duplicate set will have a unique sample number and station location number; the duplicates will be sent "blind" to the lab.

For this project a water duplicate will be collected from monitoring well 11, because this well has shown high contamination. A duplicate soil sample will be collected from the surface sample at the breakwater, which has shown previous high levels of metals and organics. A SF Bay water duplicate will be taken at site E3, in San Bruno Channel. All sample locations and QA/QC sites are listed in Table 2.

#### 6.8.2 Blank Samples

Water blanks will be collected at a 10% frequency. Since there are expected to be 16 water samples (seven groundwater, nine SF Bay water), two water blanks will be collected. When sampling equipment will be decontaminated and reused in the field, the blank sample will be an equipment blank and will be collected at the equipment decontamination location. When bailers are being used, this sample will be collected by pouring blank water through a bailer selected at random that will be used for that day's sampling.

When only dedicated equipment is used during a sampling day, the blank will be a field blank. This will be collected by pouring the blank water directly into the sample bottles at one of the sample locations.

For the volatile and semivolatile blanks, HPLC grade organic free water will be used, and for inorganic blanks, deionized-distilled water will be used. The blank water for volatiles should always be from a fresh bottle that has been opened within the week. Blanks will be labeled in the same manner as other samples and will be sent "blind" to the lab.

#### 6.8.3 Background Sample

Given the highly industrial nature of this area, all background samples are likely to be contaminated to some degree. Monitoring Well #21 was initially identified as a "background" well in previous sampling, but has since shown elevated levels of lead, and is possibly located near the site of a former landfill. Municipal wells are unacceptable background wells as they are not representative of the shallow groundwater being sampled at this site. Therefore, no background sample will be obtained for groundwater.

Background samples of SF Bay water will be obtained north and south of the site (see figure 3) in the intertidal zone. A background soil sample will be obtained at the northwest corner of the facility, an area with no known contamination.

#### 6.8.4 Lab QC Sample

A field sample will be designated as "the lab QC sample" at a frequency of 1 per 20 samples (including blanks and duplicates) for all parameters. The lab QC sample for water analyses will be a double volume sample. For soils no extra volume is required. The lab QC sample will be a sample suspected of being contaminated and which is representative of other contaminated samples. A double volume lab QC sample will be collected at Monitoring Well 19 and a single volume soil lab QC sample will be collected for surface water at site HJ1, the San Bruno outfall. The lab QC samples are designated in Table 2. The sample bottles and paperwork will be labeled "Lab QC Sample".



Figure 1. Location map for the O'Brien Facility taken from USGS 7.5' topographic quadrangle: San Francisco South.

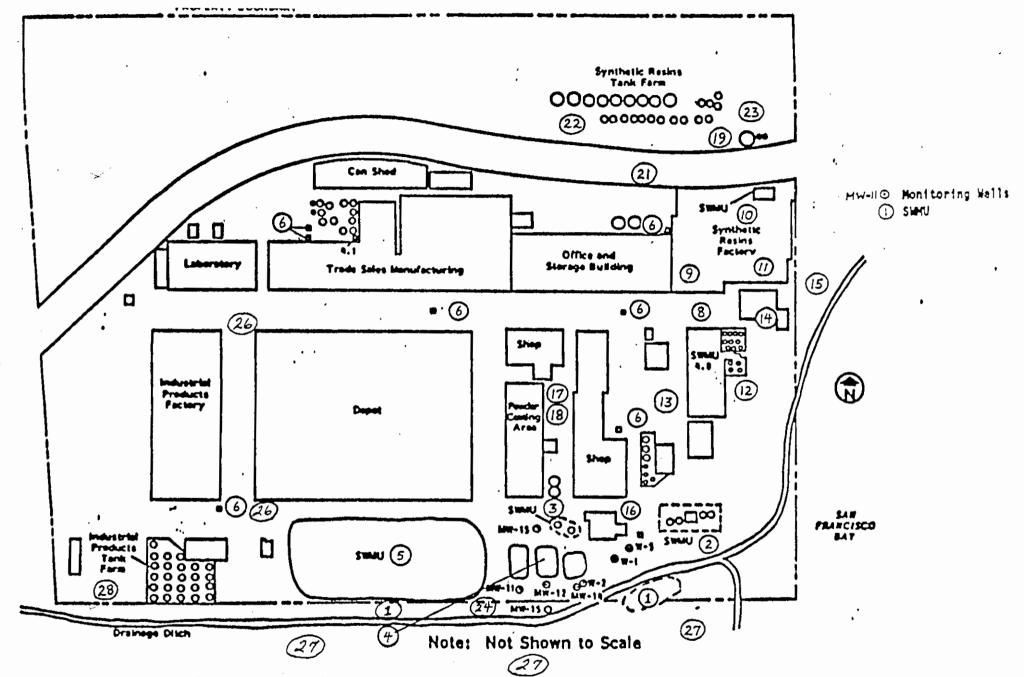
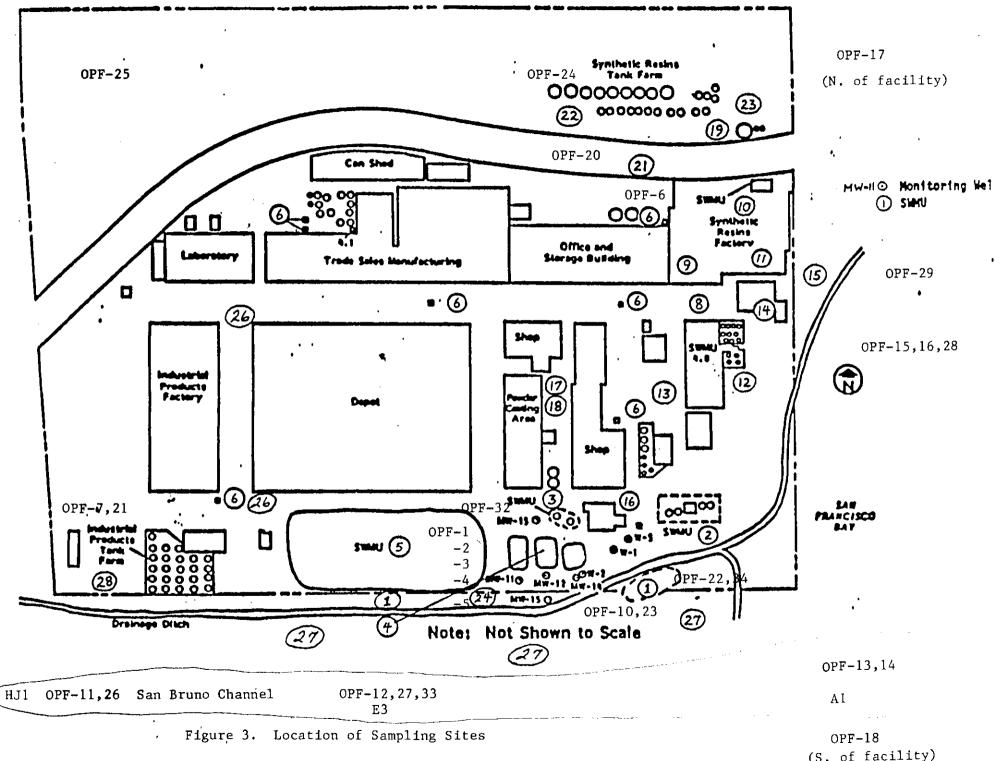


Figure 2. Location map for solid waste management units (SWMUs).



(S. of facility)

SHMUs				
SHMU No.	Name			
1	Drum Burial Area	•		
2.	Four Solvent Base Waste Treatment Tanks			
3.	Two Latex Base Wastewater Treatment Tanks *			
4.	Three Latex Base Wastewater Treatment * Solar Evaporation Ponds			
5.	Drum Accumulation Areas	•		
6.	Catch Basins (At Least Nine Units)			
7.	Portable Tanks			
	Transit Tanks			
9.	Condenser			
10.	Synthetic Resins Filter Press	•.		
11.	Fume Scrubbers (Five Units )			
12.				
13.				
14.				
15.				
16.	Hazardous Haste Drum Storage Area ***			
17.	Compactor			
1B.	• •			
19.	Steam Cleaning Area and Sump Emergency Tank			

#### AREAS OF CONCERN

Area No. Name	
4.20.1 7 "Loading Areas - Truck Parking a	Areas
4.20.27 Toluene Spill Site - Near the	
4.20.3: Tank Farm and Emergency Tank	•
4.20.4 Site of Former Diesel Fuel Tani	ks
4.20.5 Drainage Ditch	
4.20.6 Mash-water and Solvent-water To	anks
- WAREHOUSE AREA	
- OFF-SITE FILL AREA - SUSPECTED FORMER LANDFILL AREA	

- \* RCRA closed (44)

  \*\* Regulated by the Air Quality Control Board (45)

  \*\*\* RCRA regulated (44)

### OBRIEN PAINT FACILITY SAMPLING LOCATIONS

GW OPF-1 MW # 11 (downgradient) V,B,M GW OPF-2 MW # 12 (downgradient) M GW OPF-3 MW # 13 (downgradient) M GW OPF-3 MW # 13 (downgradient) M GW OPF-4 MW # 14 (downgradient) M M GW OPF-6 MW # 15 (upgradient) M M GW OPF-6 MW # 19 (near catch basins) V,B,M GW OPF-1 MW # 21 (susp fmr landfill) V,B,M M SW OPF-12 E3 (San Bruno outfall) V,B,M SW OPF-12 E3 (San Bruno tannel) V,B,M SW OPF-13 A1 (SB channel mouth high tide) M SW OPF-14 A1 (SB channel mouth low tide) M SW OPF-15 E. of SMMU 12 (high tide) M SW OPF-16 E. of SMMU 12 (high tide) M SW OPF-17 BY-7 (near Oyster Pt. Marina) M SW OPF-18 BY-8 (S.E. of facility) M S/S OPF-21 nr. MW21 (susp fmr landfill) V,B,M,T S/S OPF-22 Breakwater V,B,M,T S/S OPF-24 N. of tank farm (toluene spith) V,B,M,T S/S OPF-25 NW corner of site V,B,M,T S/S OPF-26 W. end SB Channel (HJ1) M S/S OPF-27 Ctr. SB Channel (E3) M,T S/S OPF-28 Bay mud E. of facility M M OPF-31 Blank V,B,M GW OPF-31 Blank V,B,M GW OPF-32 Dupe of OPF-1 (MW11) V,B,M GW OPF-31 Blank V,B,M GW OPF-32 Dupe of OPF-12 (E3) V,B,M,T S/S OPF-29 Dupe of OPF-12 (E3) V,B,M,T S/S OPF-24 Lab QC (MW19) V,B,M S/S OPF-25 Lab QC (Breakwater) V,B,M,T V,B,M S/S OPF-21 Lab QC (Breakwater) V,B,M,T V,B,M S/S OPF-21 Lab QC (Breakwater) V,B,M,T V,B,M S/S OPF-22 Lab QC (Breakwater) V,B,M,T	MATRIX	SAMPLE ID	LOCATION	<u>ANALYSIS</u>		
GW OPF-2 MW # 12 (downgradient) M GW OPF-3 MW # 13 (downgradient) M GW OPF-4 MW # 14 (downgradient) M GW OPF-5 MW # 15 (upgradient) M M GW OPF-6 MW # 19 (near catch basins) V,B,M GW OPF-6 MW # 19 (near catch basins) V,B,M GW OPF-7 MW # 21 (susp fmr landfill) V,B,M W OPF-11 HJ1 (San Bruno outfall) V,B,M SW OPF-12 E3 (San Bruno channel) V,B,M SW OPF-13 A1 (SB channel mouth high tide) M SW OPF-13 A1 (SB channel mouth low tide) M SW OPF-15 E. of SWMU 12 (high tide) M SW OPF-16 E. of SWMU 12 (low tide) M SW OPF-17 BY-7 (near Oyster Pt. Marina) M SW OPF-18 BY-8 (S.E. of facility) W M OPF-18 BY-8 (S.E. of facility) V,B,M,T S/S OPF-21 nr. MW21 (susp fmr landfill) V,B,M,T S/S OPF-23 Drainage Ditch M Cy,B,M,T S/S OPF-24 Nv Graner of site V,B,M,T S/S OPF-25 Nw corner of site V,B,M,T S/S OPF-26 W. end SB Channel (HJ1) M S/S OPF-27 Ctr. SB Channel (E3) M,T S/S OPF-28 Bay mud E. of facility M M OPF-30 Blank V,B,M,T S/S OPF-29 Bay mud E. of facility M M OPF-31 Blank V,B,M,T S/S OPF-29 Bay mud E. of facility M S/S OPF-29 Dupe of OPF-1 (MW11) V,B,M,T S/S OPF-29 Dupe of OPF-12 (E3) V,B,M,T S/S OPF-31 Dupe of OPF-12 (E3) V,B,M,T S/S OPF-34 Dupe of OPF-12 (E3) V,B,M,T S/S OPF-11 Lab QC (MW19) V,B,M,T S/S OPF-22 Lab QC (Breakwater) V,B,M,T V,B,M,T S/S OPF-22 Lab QC (Breakwater) V,B,M,T V,B,M,T S/S OPF-22 Lab QC (Breakwater) V,B,M,T V,B,M	GW	OPF-1	MW # 11 (downgradient)	V.B.M		
GW OPF-3 MW # 13 (downgradient) M M # 14 (downgradient) M M # 14 (downgradient) M M GW OPF-5 MW # 15 (upgradient) M M M # 19 (near catch basins) V,B,M M # 21 (susp fmr landfill) V,B,M M # 21 (susp fmr landfill) V,B,M M W OPF-12 E3 (San Bruno outfall) V,B,M M W OPF-13 A1 (SB channel mouth high tide) M M SW OPF-14 A1 (SB channel mouth high tide) M M SW OPF-15 E. of SWMU 12 (high tide) M M M OPF-16 E. of SWMU 12 (high tide) M M M M OPF-17 BY-7 (near Oyster Pt. Marina) M M M OPF-18 BY-8 (S.E. of facility) M M M M OPF-22 Breakwater V,B,M,T S/S OPF-24 N. of tank farm (toluene spill) V,B,M,T S/S OPF-25 NW corner of site V,B,M,T S/S OPF-26 W. end SB Channel (HJ1) M M M M M OPF-31 Blank V,B,M,T S/S OPF-27 Ctr. SB Channel (E3) M,T S/S OPF-28 Bay mud E. of facility M M M OPF-31 Blank V,B,M M M OPF-31 Dupe of OPF-12 (E3) M,T S/S OPF-32 Dupe of OPF-12 (E3) V,B,M M V,B,M,T W,B,M,T M,T S/S OPF-29 Bay mud E. of facility M M M OPF-31 Dupe of OPF-12 (E3) V,B,M,T V,B,M,T W,B,M,T M,T M,T M,T M,T M,T M,T M,T M,T M,T						
GW OPF-5 MW # 14 (downgradient) M GW OPF-6 MW # 15 (upgradient) M GW OPF-6 MW # 19 (near catch basins) V,B,M GW OPF-7 MW # 21 (susp fmr landfill) V,B,M GW OPF-10 Drainage Ditch (s.of impound) M SW OPF-11 HJ1 (San Bruno outfall) V,B,M SW OPF-12 E3 (San Bruno channel) V,B,M SW OPF-13 A1 (SB channel mouth high tide) M SW OPF-14 A1 (SB channel mouth low tide) M SW OPF-15 E. of SWMU 12 (high tide) M SW OPF-16 E. of SWMU 12 (low tide) M SW OPF-17 BY-7 (near Oyster Pt. Marina) M SW OPF-18 BY-8 (S.E. of facility) M  S/S OPF-20 S. of tank-farm (toluene spirl) V,B,M,T S/S OPF-21 nr. MW21 (susp fmr landfill) V,B,M,T S/S OPF-22 Breakwater V,B,M,T S/S OPF-23 Drainage Ditch M S/S OPF-24 N. of tank farm V,B,M,T S/S OPF-25 NW corner of site V,B,M,T S/S OPF-26 W. end SB Channel (HJ1) M S/S OPF-27 Ctr. SB Channel (E3) M,T S/S OPF-28 Bay mud E. of facility M  OA/QC  W OPF-31 Blank V,B,M W OPF-31 Blank W OPF-32 Dupe of OPF-1 (MW11) V,B,M SW OPF-33 Dupe of OPF-12 (E3) V,B,M SW OPF-34 Dupe of OPF-12 (E3) V,B,M SW OPF-35 Dupe of OPF-12 (E3) V,B,M SW OPF-36 Lab QC (MU19) V,B,M S/S OPF-22 Lab QC (Breakwater) V,B,M,T V,B,M,M S/S OPF-22 Lab QC (Breakwater) V,B,M,T						
GW OPF-6 MW # 15 (upgradient) M # 19 (near catch basins) V,B,M GW OPF-6 MW # 19 (near catch basins) V,B,M W # 19 (near catch basins) V,B,M W # 19 (near catch basins) V,B,M W # 19 (susp fmr landfill) V,B,M W PF-10 Drainage Ditch (s.of impound) M W W OPF-11 HJ1 (San Bruno outfall) V,B,M W OPF-12 E3 (San Bruno channel) V,B,M W OPF-13 A1 (SB channel mouth high tide) M W W OPF-14 A1 (SB channel mouth high tide) M W W OPF-15 E. of SWMU 12 (high tide) M W W OPF-16 E. of SWMU 12 (high tide) M W W OPF-17 BY-7 (near Oyster Pt. Marina) M W W OPF-18 BY-8 (S.E. of facility) M W W OPF-18 BY-8 (S.E. of facility) M W W OPF-22 Breakwater V,B,M,T S/S OPF-24 N. of tank farm (toluene spirl) V,B,M,T S/S OPF-25 NW corner of site V,B,M,T S/S OPF-26 W. end SB Channel (HJ1) M W S/S OPF-27 Ctr. SB Channel (E3) M,T S/S OPF-28 Bay mud E. of facility M M W OPF-31 Blank V,B,M M W OPF-31 Blank V,B,M M W OPF-32 Dupe of OPF-12 (E3) M,T V,B,M,T S/S OPF-29 Bay mud E. of facility M M OPF-31 Blank V,B,M M OPF-31 Dupe of OPF-12 (E3) V,B,M M V,B,M M OPF-31 Dupe of OPF-12 (E3) V,B,M M V,B,M M OPF-31 Dupe of OPF-12 (E3) V,B,M M V,B,M M OPF-31 Dupe of OPF-12 (E3) V,B,M M V,B,M M OPF-31 Dupe of OPF-12 (E3) V,B,M M V,B,M M OPF-31 Dupe of OPF-22 (Breakwater) V,B,M,T V,B,M M OPF-31 Dupe of OPF-22 (Breakwater) V,B,M,T V,B,M M OPF-31 Lab QC (MW19) V,B,M M V,B,M M OPF-31 Lab QC (Breakwater) V,B,M,T						
GW OPF-6 MW # 19 (near catch basins) V,B,M GW OPF-7 MW # 21 (susp fmr landfill) V,B,M  SW OPF-10 Drainage Ditch (s.of impound) M SW OPF-11 HJ1 (San Bruno outfall) V,B,M SW OPF-12 E3 (San Bruno channel) V,B,M SW OPF-13 A1 (SB channel mouth high tide) M SW OPF-14 A1 (SB channel mouth low tide) M SW OPF-15 E. of SWMU 12 (high tide) M SW OPF-16 E. of SWMU 12 (high tide) M SW OPF-17 BY-7 (near Oyster Pt. Marina) M SW OPF-18 BY-8 (S.E. of facility) M  S/S OPF-21 nr. MW21 (susp fmr landfill) V,B,M,T S/S OPF-22 Breakwater V,B,M,T S/S OPF-23 Drainage Ditch M S/S OPF-24 N. of tank farm (toluene spill) V,B,M,T S/S OPF-25 NW corner of site V,B,M,T S/S OPF-26 W. end SB Channel (HJ1) M S/S OPF-27 Ctr. SB Channel (E3) M,T S/S OPF-28 Bay mud E. of facility M S/S OPF-29 Bay mud E. of facility M  OPF-31 Blank V,B,M W OPF-31 Blank V,B,M W OPF-32 Dupe of OPF-1 (MW11) V,B,M SW OPF-33 Dupe of OPF-12 (E3) V,B,M GW OPF-34 Dupe of OPF-12 (E3) V,B,M S/S OPF-25 Lab QC (MW19) V,B,M S/S OPF-11 Lab QC (MW19) V,B,M S/S OPF-22 Lab QC (Breakwater) V,B,M,T						
GW         OPF-7         MW # 21 (susp fmr landfill)         V,B,M           SW         OPF-10         Drainage Ditch (s.of impound)         M           SW         OPF-11         HJ1 (San Bruno outfall)         V,B,M           SW         OPF-12         E3 (San Bruno channel)         V,B,M           SW         OPF-13         A1 (SB channel mouth high tide)         M           SW         OPF-14         A1 (SB channel mouth low tide)         M           SW         OPF-15         E. of SWMU 12 (high tide)         M           SW         OPF-16         E. of SWMU 12 (high tide)         M           SW         OPF-17         BY-7 (near Oyster Pt. Marina)         M           SW         OPF-18         BY-8 (S.E. of facility)         M           S/S         OPF-21         nr. MW21 (susp fmr landfill)         V,B,M,T           S/S         OPF-21         nr. MW21 (susp fmr landfill)         V,B,M,T           S/S         OPF-22         Breakwater         V,B,M,T           S/S         OPF-21         nr. MW21 (susp fmr landfill)         V,B,M,T           S/S         OPF-22         Drainage Ditch         W,B,M,T           S/S         OPF-24         N. of tank farm (toluene spill)         V,B,M,T <td></td> <td></td> <td></td> <td></td>						
SW OPF-10 Drainage Ditch (s.of impound) M SW OPF-11 HJ1 (San Bruno outfall) V,B,M SW OPF-12 E3 (San Bruno channel) V,B,M SW OPF-13 A1 (SB channel mouth high tide) M SW OPF-14 A1 (SB channel mouth low tide) M SW OPF-15 E. of SWMU 12 (high tide) M SW OPF-16 E. of SWMU 12 (hogh tide) M SW OPF-17 BY-7 (near Oyster Pt. Marina) M SW OPF-18 BY-8 (S.E. of facility) M SY OPF-19 BY-8 (S.E. of facility) M SY OPF-20 S. of tank farm (toluene spill) V,B,M,T S/S OPF-21 nr. MW21 (susp fmr landfill) V,B,M,T S/S OPF-22 Breakwater V,B,M,T S/S OPF-23 Drainage Ditch M SYS OPF-24 N. of tank farm V,B,M,T S/S OPF-25 NW corner of site V,B,M,T S/S OPF-26 W. end SB Channel (HJ1) M SYS OPF-27 Ctr. SB Channel (E3) M,T S/S OPF-28 Bay mud E. of facility M SYS OPF-29 Bay mud E. of facility M SYS OPF-29 Bay mud E. of facility M OPF-31 Blank V,B,M W OPF-31 Blank V,B,M W OPF-32 Dupe of OPF-1 (MW11) V,B,M SW OPF-33 Dupe of OPF-12 (E3) V,B,M GW OPF-34 Dupe of OPF-12 (E3) V,B,M SYS OPF-6 Lab QC (MW19) V,B,M SYS OPF-11 Lab QC (MW19) V,B,M SYS OPF-22 Lab QC (Breakwater) V,B,M,T						
SW         OPF-11         HJ1 (San Bruno outfall)         V,B,M           SW         OPF-12         E3 (San Bruno channel)         V,B,M           SW         OPF-13         A1 (SB channel mouth high tide)         M           SW         OPF-14         A1 (SB channel mouth low tide)         M           SW         OPF-15         E. of SwMU 12 (high tide)         M           SW         OPF-16         E. of SwMU 12 (low tide)         M           SW         OPF-17         BY-7 (near Oyster Pt. Marina)         M           SW         OPF-18         BY-8 (S.E. of facility)         M    S/S  OPF-21  nr. Mw21 (susp fmr landfill)  V,B,M,T  S/S  OPF-22  Breakwater  Nr. Mw21 (susp fmr landfill)  V,B,M,T  V,B,M,T  V,B,M,T  S/S  OPF-23  Drainage Ditch  Mr.			in a coup in initiality	7272		
SW OPF-11 HJ1 (San Bruno outfall) V,B,M SW OPF-12 E3 (San Bruno channel) V,B,M SW OPF-13 A1 (SB channel mouth high tide) M SW OPF-14 A1 (SB channel mouth low tide) M SW OPF-15 E. of SWMU 12 (high tide) M SW OPF-16 E. of SWMU 12 (low tide) M SW OPF-16 E. of SWMU 12 (low tide) M SW OPF-17 BY-7 (near Oyster Pt. Marina) M SW OPF-18 BY-8 (S.E. of facility) M  S/S OPF-21 nr. MW21 (susp fmr landfill) V,B,M,T S/S OPF-22 Breakwater V,B,M,T S/S OPF-23 Drainage Ditch M S/S OPF-24 N. of tank farm V,B,M,T S/S OPF-25 NW corner of site V,B,M,T S/S OPF-26 W. end SB Channel (HJ1) M S/S OPF-27 Ctr. SB Channel (E3) M,T S/S OPF-28 Bay mud E. of facility M S/S OPF-29 Bay mud E. of facility M  OPF-30 Blank V,B,M GW OPF-30 Blank V,B,M GW OPF-31 Dupe of OPF-1 (MW11) V,B,M SW OPF-33 Dupe of OPF-12 (E3) V,B,M SW OPF-34 Dupe of OPF-22 (Breakwater) V,B,M,T GW OPF-34 Dupe of OPF-22 (Breakwater) V,B,M,T SW OPF-34 Dupe of OPF-24 (Breakwater) V,B,M,T SW OPF-34 Dupe of OPF-25 (Breakwater) V,B,M,T SW OPF-34 Dupe of OPF-24 (Breakwater) V,B,M,T SW OPF-34 Dupe of OPF-25 (Breakwater) V,B,M,T SW OPF-34 Dupe of OPF-24 (Breakwater) V,B,M,T SW OPF-34 Dupe of OPF-25 (Breakwater) V,B,M,T SW OPF-34 Dupe of OPF-25 (Breakwater) V,B,M,T SW OPF-34 Dupe of OPF-25 (Breakwater) V,B,M,T	SW	OPF-10	Drainage Ditch (s.of impound)	М		
SW         OPF-12         E3         (San Bruno channel)         V,B,M           SW         OPF-13         A1 (SB channel mouth high tide)         M           SW         OPF-14         A1 (SB channel mouth low tide)         M           SW         OPF-15         E. of SWMU 12 (high tide)         M           SW         OPF-16         E. of SWMU 12 (low tide)         M           SW         OPF-17         BY-7 (near Oyster Pt. Marina)         M           SW         OPF-18         BY-8 (S.E. of facility)         M           S/S         OPF-21         nr. Mw21 (susp fmr landfill)         V,B,M,T           S/S         OPF-22         Breakwater         V,B,M,T           S/S         OPF-22         Breakwater         V,B,M,T           S/S         OPF-24         N. of tank farm         V,B,M,T           S/S         OPF-25         NW corner of site         V,B,M,T           S/S         OPF-26         W. end SB Channel (E3)         M,T           S/S <td>SW</td> <td></td> <td></td> <td></td>	SW					
SW         OPF-13         Al (SB channel mouth high tide)         M           SW         OPF-14         Al (SB channel mouth low tide)         M           SW         OPF-15         E. of SWMU 12 (high tide)         M           SW         OPF-16         E. of SWMU 12 (low tide)         M           SW         OPF-17         BY-7 (near Oyster Pt. Marina)         M           SW         OPF-18         BY-8 (S.E. of facility)         V,B,M,T           S/S         OPF-18         BY-8 (S.E. of facility)         V,B,M,T           S/S         OPF-21         nr. MW21 (susp fmr landfill)         V,B,M,T           S/S         OPF-22         Breakwater         V,B,M,T           S/S         OPF-23         Drainage Ditch         M           S/S         OPF-24         N. of tank farm         V,B,M,T           S/S         OPF-24         N. of tank farm         V,B,M,T           S/S         OPF-25         Nw corner of site         V,B,M,T           S/S         OPF-26         W. end SB Channel (HJ1)         M           S/S         OPF-27         Ctr. SB Channel (E3)         M,T           S/S         OPF-31         Blank         V,B,M           W         OPF-32						
SW OPF-14 A1 (SB channel mouth low tide) M SW OPF-15 E. of SWMU 12 (high tide) M SW OPF-16 E. of SWMU 12 (low tide) M SW OPF-17 BY-7 (near Oyster Pt. Marina) M SW OPF-18 BY-8 (S.E. of facility) M  S/S OPF-20 S. of tank farm (toluene spill) V,B,M,T S/S OPF-21 nr. MW21 (susp fmr landfill) V,B,M,T S/S OPF-22 Breakwater V,B,M,T S/S OPF-23 Drainage Ditch M S/S OPF-24 N. of tank farm V,B,M,T S/S OPF-25 NW corner of site V,B,M,T S/S OPF-26 W. end SB Channel (HJ1) M S/S OPF-27 Ctr. SB Channel (E3) M,T S/S OPF-28 Bay mud E. of facility M S/S OPF-29 Bay mud E. of facility M S/S OPF-29 Bay mud E. of facility M  OPF-31 Blank V,B,M GW OPF-32 Dupe of OPF-1 (MW11) V,B,M GW OPF-33 Dupe of OPF-12 (E3) V,B,M S/S OPF-6 Lab QC (MU19) V,B,M SW OPF-6 Lab QC (MU19) V,B,M SW OPF-11 Lab QC (HJ1) V,B,M S/S OPF-22 Lab QC (Breakwater) V,B,M,T						
SW         OPF-15         E. of SWMU 12 (high tide)         M           SW         OPF-16         E. of SWMU 12 (low tide)         M           SW         OPF-17         BY-7 (near Oyster Pt. Marina)         M           SW         OPF-18         BY-8 (S.E. of facility)         M           S/S         OPF-18         BY-8 (S.E. of facility)         V,B,M,T           S/S         OPF-21         nr. MW21 (susp fmr landfill)         V,B,M,T           S/S         OPF-22         Breakwater         V,B,M,T           S/S         OPF-23         Drainage Ditch         M           S/S         OPF-24         N. of tank farm         V,B,M,T           S/S         OPF-25         NW corner of site         V,B,M,T           S/S         OPF-26         W. end SB Channel (HJ1)         M           S/S         OPF-27         Ctr. SB Channel (E3)         M,T           S/S         OPF-28         Bay mud E. of facility         M           OPF-29         Bay mud E. of facility         M           OPF-31         Blank         V,B,M           W         OPF-32         Dupe of OPF-12 (E3)         V,B,M           S/S         OPF-34         Dupe of OPF-12 (E3)         V,B,M						
SW         OPF-16         E. of SWMU 12 (low tide)         M           SW         OPF-17         BY-7 (near Oyster Pt. Marina)         M           SW         OPF-18         BY-8 (S.E. of facility)         M           S/S         OPF-18         BY-8 (S.E. of facility)         V,B,M,T           S/S         OPF-20         S. of tank farm (toluene spill)         V,B,M,T           S/S         OPF-21         nr. MW21 (susp fmr landfill)         V,B,M,T           S/S         OPF-22         Breakwater         V,B,M,T           S/S         OPF-23         Drainage Ditch         M           S/S         OPF-24         N. of tank farm         V,B,M,T           S/S         OPF-25         NW corner of site         V,B,M,T           S/S         OPF-25         NW corner of site         V,B,M,T           S/S         OPF-26         W. end SB Channel (HJ1)         M           S/S         OPF-27         Ctr. SB Channel (E3)         M,T           S/S         OPF-28         Bay mud E. of facility         M           OPF-29         Bay mud E. of facility         M           OPF-31         Blank         V,B,M           W         OPF-32         Dupe of OPF-12						
SW         OPF-17         BY-7 (near Oyster Pt. Marina)         M           SW         OPF-18         BY-8 (S.E. of facility)         M           S/S         OPF-18         BY-8 (S.E. of facility)         M           S/S         OPF-20         S. of tank farm (toluene spill)         V,B,M,T           S/S         OPF-21         nr. MW21 (susp fmr landfill)         V,B,M,T           S/S         OPF-22         Breakwater         V,B,M,T           S/S         OPF-23         Drainage Ditch         M           S/S         OPF-24         N. of tank farm         V,B,M,T           S/S         OPF-25         NW corner of site         V,B,M,T           S/S         OPF-26         W. end SB Channel (HJ1)         M           S/S         OPF-27         Ctr. SB Channel (E3)         M,T           S/S         OPF-28         Bay mud E. of facility         M           QA/QC           W         OPF-29         Bay mud E. of facility         M           QA/QC           W         OPF-31         Blank         V,B,M           W         OPF-32         Dupe of OPF-12 (E3)         V,B,M           S/S         OPF-34         Dupe of OPF-12 (Breakw						
SW         OPF-18         BY-8 (S.E. of facility)         M           S/S         OPF-20         S. of tank farm (toluene spill)         V,B,M,T           S/S         OPF-21         nr. MW21 (susp fmr landfill)         V,B,M,T           S/S         OPF-22         Breakwater         V,B,M,T           S/S         OPF-23         Drainage Ditch         M           S/S         OPF-24         N. of tank farm         V,B,M,T           S/S         OPF-25         NW corner of site         V,B,M,T           S/S         OPF-26         W. end SB Channel (HJ1)         M           S/S         OPF-27         Ctr. SB Channel (E3)         M,T           S/S         OPF-28         Bay mud E. of facility         M           OPF-29         Bay mud E. of facility         M           OPF-29         Bay mud E. of facility         M           OPF-31         Blank         V,B,M           W         OPF-31         Blank         V,B,M           W         OPF-32         Dupe of OPF-1 (MW11)         V,B,M           S/S         OPF-33         Dupe of OPF-12 (E3)         V,B,M           S/S         OPF-34         Dupe of OPF-22 (Breakwater)         V,B,M <td< td=""><td></td><td></td><td></td><td></td></td<>						
S/S						
S/S         OPF-21         nr. MW21 (susp fmr landfill)         V,B,M,T           S/S         OPF-22         Breakwater         V,B,M,T           S/S         OPF-23         Drainage Ditch         M           S/S         OPF-24         N. of tank farm         V,B,M,T           S/S         OPF-25         NW corner of site         V,B,M,T           S/S         OPF-26         W. end SB Channel (HJ1)         M           S/S         OPF-27         Ctr. SB Channel (E3)         M,T           S/S         OPF-28         Bay mud E. of facility         M           S/S         OPF-29         Bay mud E. of facility         M           QA/QC           W         OPF-31         Blank         V,B,M           W         OPF-32         Dupe of OPF-1 (MW11)         V,B,M           SW         OPF-33         Dupe of OPF-12 (E3)         V,B,M           S/S         OPF-34         Dupe of OPF-22 (Breakwater)         V,B,M,T           GW         OPF-6         Lab QC (MW19)         V,B,M           SW         OPF-11         Lab QC (Breakwater)         V,B,M,T						
S/S         OPF-21         nr. MW21 (susp fmr landfill)         V, B, M, T           S/S         OPF-22         Breakwater         V, B, M, T           S/S         OPF-23         Drainage Ditch         M           S/S         OPF-24         N. of tank farm         V, B, M, T           S/S         OPF-25         NW corner of site         V, B, M, T           S/S         OPF-26         W. end SB Channel (HJ1)         M           S/S         OPF-27         Ctr. SB Channel (E3)         M, T           S/S         OPF-28         Bay mud E. of facility         M           S/S         OPF-29         Bay mud E. of facility         M           OPF-29         Bay mud E. of facility         M           OPF-31         Blank         V, B, M           W         OPF-31         Blank         V, B, M           GW         OPF-32         Dupe of OPF-1 (MW11)         V, B, M           SW         OPF-33         Dupe of OPF-12 (E3)         V, B, M           S/S         OPF-34         Dupe of OPF-22 (Breakwater)         V, B, M           SW         OPF-6         Lab QC (MW19)         V, B, M           SW         OPF-22         Lab QC (Breakwater)         V, B, M	S/S	OPF-20-	S. of tank farm (toluene spill)	V, B, M, T.		
S/S         OPF-22         Breakwater         V,B,M,T           S/S         OPF-23         Drainage Ditch         M           S/S         OPF-24         N. of tank farm         V,B,M,T           S/S         OPF-25         NW corner of site         V,B,M,T           S/S         OPF-26         W. end SB Channel (HJ1)         M           S/S         OPF-27         Ctr. SB Channel (E3)         M,T           S/S         OPF-28         Bay mud E. of facility         M           S/S         OPF-29         Bay mud E. of facility         M           QA/QC           W         OPF-31         Blank         V,B,M           W         OPF-32         Dupe of OPF-1 (MW11)         V,B,M           SW         OPF-32         Dupe of OPF-12 (E3)         V,B,M           S/S         OPF-34         Dupe of OPF-22 (Breakwater)         V,B,M,T           GW         OPF-6         Lab QC (MW19)         V,B,M           SW         OPF-11         Lab QC (Breakwater)         V,B,M,T	S/S					
S/S	S/S	OPF-22				
S/S         OPF-25         NW corner of site         V,B,M,T           S/S         OPF-26         W. end SB Channel (HJ1)         M           S/S         OPF-27         Ctr. SB Channel (E3)         M,T           S/S         OPF-28         Bay mud E. of facility         M           OA/QC           W         OPF-29         Bay mud E. of facility         M           OA/QC           W         OPF-30         Blank         V,B,M           GW         OPF-31         Blank         V,B,M           GW         OPF-32         Dupe of OPF-1 (MW11)         V,B,M           SW         OPF-33         Dupe of OPF-12 (E3)         V,B,M           S/S         OPF-34         Dupe of OPF-22 (Breakwater)         V,B,M,T           GW         OPF-6         Lab QC (MW19)         V,B,M           SW         OPF-11         Lab QC (HJ1)         V,B,M           S/S         OPF-22         Lab QC (Breakwater)         V,B,M,T	~-S-/S-	OPF-23	Drainage Ditch-			
S/S         OPF-25         NW corner of site         V,B,M,T           S/S         OPF-26         W. end SB Channel (HJ1)         M           S/S         OPF-27         Ctr. SB Channel (E3)         M,T           S/S         OPF-28         Bay mud E. of facility         M           S/S         OPF-29         Bay mud E. of facility         M           OA/OC           W         OPF-30         Blank         V,B,M           W         OPF-31         Blank         V,B,M           GW         OPF-32         Dupe of OPF-1 (MW11)         V,B,M           SW         OPF-33         Dupe of OPF-12 (E3)         V,B,M           S/S         OPF-34         Dupe of OPF-22 (Breakwater)         V,B,M,T           GW         OPF-6         Lab QC (MW19)         V,B,M           SW         OPF-11         Lab QC (HJ1)         V,B,M           S/S         OPF-22         Lab QC (Breakwater)         V,B,M,T	S/S	OPF-24	N. of tank farm	V,B,M,T		
S/S         OPF-26         W. end SB Channel (HJ1)         M           S/S         OPF-27         Ctr. SB Channel (E3)         M,T           S/S         OPF-28         Bay mud E. of facility         M           QA/QC           W         OPF-29         Bay mud E. of facility         M           QA/QC           W         OPF-30         Blank         V,B,M           W         OPF-31         Blank         V,B,M           GW         OPF-32         Dupe of OPF-1 (MW11)         V,B,M           SW         OPF-33         Dupe of OPF-12 (E3)         V,B,M           S/S         OPF-34         Dupe of OPF-22 (Breakwater)         V,B,M,T           GW         OPF-6         Lab QC (MW19)         V,B,M           SW         OPF-11         Lab QC (HJ1)         V,B,M           S/S         OPF-22         Lab QC (Breakwater)         V,B,M,T	S/S	OPF-25	NW corner of site			
S/S         OPF-28         Bay mud E. of facility         M           QA/QC           W         OPF-30         Blank         V,B,M           W         OPF-31         Blank         V,B,M           GW         OPF-32         Dupe of OPF-1 (MW11)         V,B,M           SW         OPF-33         Dupe of OPF-12 (E3)         V,B,M           S/S         OPF-34         Dupe of OPF-22 (Breakwater)         V,B,M,T           GW         OPF-6         Lab QC (MW19)         V,B,M           SW         OPF-11         Lab QC (HJ1)         V,B,M           S/S         OPF-22         Lab QC (Breakwater)         V,B,M,T	S/S	OPF-26	W. end SB Channel (HJ1)			
S/S         OPF-28         Bay mud E. of facility         M           OA/QC           W         OPF-30         Blank         V,B,M           W         OPF-31         Blank         V,B,M           GW         OPF-32         Dupe of OPF-1 (MW11)         V,B,M           SW         OPF-33         Dupe of OPF-12 (E3)         V,B,M           S/S         OPF-34         Dupe of OPF-22 (Breakwater)         V,B,M,T           GW         OPF-6         Lab QC (MW19)         V,B,M           SW         OPF-11         Lab QC (HJ1)         V,B,M           S/S         OPF-22         Lab QC (Breakwater)         V,B,M,T	S/S	OPF-27		M,T		
QA/QC           W         OPF-30         Blank         V,B,M           W         OPF-31         Blank         V,B,M           GW         OPF-32         Dupe of OPF-1 (MW11)         V,B,M           SW         OPF-33         Dupe of OPF-12 (E3)         V,B,M           S/S         OPF-34         Dupe of OPF-22 (Breakwater)         V,B,M,T           GW         OPF-6         Lab QC (MW19)         V,B,M           SW         OPF-11         Lab QC (HJ1)         V,B,M           S/S         OPF-22         Lab QC (Breakwater)         V,B,M,T	S/S	OPF-28				
W OPF-30 Blank W OPF-31 Blank W OPF-31 Blank W OPF-32 Dupe of OPF-1 (MW11) W OPF-33 Dupe of OPF-12 (E3) W OPF-34 Dupe of OPF-22 (Breakwater) W OPF-6 Lab QC (MW19) W OPF-11 Lab QC (HJ1) W OPF-22 Lab QC (Breakwater) W W, B, M W	S/S	OPF-29	Bay mud E. of facility	M		
W OPF-30 Blank W OPF-31 Blank W OPF-31 Blank W OPF-32 Dupe of OPF-1 (MW11) W OPF-33 Dupe of OPF-12 (E3) W OPF-34 Dupe of OPF-22 (Breakwater) W OPF-6 Lab QC (MW19) W OPF-11 Lab QC (HJ1) W OPF-22 Lab QC (Breakwater) W W, B, M W						
W OPF-31 Blank GW OPF-32 Dupe of OPF-1 (MW11) V,B,M SW OPF-33 Dupe of OPF-12 (E3) V,B,M S/S OPF-34 Dupe of OPF-22 (Breakwater) V,B,M,T GW OPF-6 Lab QC (MW19) V,B,M SW OPF-11 Lab QC (HJ1) V,B,M S/S OPF-22 Lab QC (Breakwater) V,B,M,T			<u>QA/QC</u>			
W OPF-31 Blank GW OPF-32 Dupe of OPF-1 (MW11) V,B,M SW OPF-33 Dupe of OPF-12 (E3) V,B,M S/S OPF-34 Dupe of OPF-22 (Breakwater) V,B,M,T GW OPF-6 Lab QC (MW19) V,B,M SW OPF-11 Lab QC (HJ1) V,B,M S/S OPF-22 Lab QC (Breakwater) V,B,M,T	W	OPF-30	Blank	V R M		
GW OPF-32 Dupe of OPF-1 (MW11) V,B,M SW OPF-33 Dupe of OPF-12 (E3) V,B,M S/S OPF-34 Dupe of OPF-22 (Breakwater) V,B,M,T GW OPF-6 Lab QC (MW19) V,B,M SW OPF-11 Lab QC (HJ1) V,B,M S/S OPF-22 Lab QC (Breakwater) V,B,M,T						
SW         OPF-33         Dupe of OPF-12 (E3)         V,B,M           S/S         OPF-34         Dupe of OPF-22 (Breakwater)         V,B,M,T           GW         OPF-6         Lab QC (MW19)         V,B,M           SW         OPF-11         Lab QC (HJ1)         V,B,M           S/S         OPF-22         Lab QC (Breakwater)         V,B,M,T						
S/S OPF-34 Dupe of OPF-22 (Breakwater) V,B,M,T GW OPF-6 Lab QC (MW19) V,B,M SW OPF-11 Lab QC (HJ1) V,B,M S/S OPF-22 Lab QC (Breakwater) V,B,M,T						
GW OPF-6 Lab QC (MW19) V,B,M SW OPF-11 Lab QC (HJ1) V,B,M S/S OPF-22 Lab QC (Breakwater) V,B,M,T						
SW OPF-11 Lab QC (HJ1) V,B,M S/S OPF-22 Lab QC (Breakwater) V,B,M,T	•		<del>-</del> ,			
S/S OPF-22 Lab QC (Breakwater) V,B,M,T			,			
~			- · ·			
	5, 5	011 22	Tan %c (Diegywarel)	V , D , П , Т		
GW Groundwater V VOAs T TCLP metals	GW Grou	OPF-26 W. end SB Channel (HJ1) M OPF-27 Ctr. SB Channel (E3) M,T OPF-28 Bay mud E. of facility M OPF-29 Bay mud E. of facility M OPF-30 Blank V,B,M OPF-31 Blank V,B,M OPF-32 Dupe of OPF-1 (MW11) V,B,M OPF-33 Dupe of OPF-12 (E3) V,B,M OPF-34 Dupe of OPF-22 (Breakwater) V,B,M,T OPF-6 Lab QC (MW19) V,B,M OPF-11 Lab QC (HJ1) V,B,M OPF-22 Lab QC (Breakwater) V,B,M,T OPF-6 Lab QC (Breakwater) V,B,M,T OPF-22 Lab QC (Breakwater) V,B,M,T				
1 1011 1110 0011						

Table 2. Sample Locations and Analysis

CLP ANALYSES	S REQUESTE	RAS+SAS	ROUTINE ANALYTICAL SERVICES (RAS)				SPECIAL ANALYTICAL SERVICES (SAS)		
CHEMISTRY T	YPE		ORGANICS INORGANICS						
ANALYSES RE	QUESTED	RAS+SAS VOA'S	RAS VOA's	RAS SEMI VOAS	RAS	RAS METALS (total)	RAS Metals (dissolved)		
PRESERVATIV	ES	Add 2 drops 1:1 HCl Chill to 4	1:1 HCl	Chill to 4 C	Chill to 4 C		add HNO3 to pH <2		
ANALYTICAL HOLDING TIM	IE (s)	Hold <14 days		extraction,	prior to	months [26 days	Hold to <6 months		
CONTRACT HOLDING TIM	E (s)	Hold <10  days	Hold <10  days	prior to extraction,	Hold <5 days prior to extraction, 40 days after extraction	months [26 days	<12 days		
SAMPLE x S	SAMPLE	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOITLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS
SAMPLE LOCATION	SAMPLING SCHEDULE		3 x 40 ml  glass  vial	2 x 1 liter amber glass bottle *	2 x 1 liter  amber  glass bottle	1 x 1 liter  poly  bottle	1 x 1 liter  poly  bottle		
OPF-1	DAY 1		3	2		   1 	1	   	
OPF-2	DAY 1					1	1		
0PF-3	DAY 1					1	1		
OPF-4	DAY 1					1	1		
OPF-5	DAY 1					1	1		
OPF-6 (LAB QC)	DAY 1		6	4		2	2		
OPF-7	DAY 1		3	2		   1 	1		
OPF-10	DAY 1					1	1		
	TOTALS	1	18  12	12		۱ ٩	! <b>4</b> 9		

CLP ANALYSE	S REQUESTE	RAS+SAS		ROUTINE AM	NALYTICAL SERVI	ICES (RAS)		SPECIAL ANALY SERVICES (SAS	
CHEMISTRY T	YPE			ORGANICS		INOF	RGANICS		
ANALYSES RE	QUESTED	RAS+SAS VOA's	RAS VOA's	RAS SEMI VOAS	RAS	RAS METALS (total)	RAS METALS (DISSOLVED)		
PRESERVATIV	'ES	1:1 HCl	Add 2 drops 1:1 HCl Chill to 4	Chill to 4 C	Chill to 4 C		add HNO3 to pH <2		
ANALYTICAL HOLDING TIM	tE (s)		Hold <14 days	prior to extraction,	Hold <7 days prior to extraction, 40 days after extraction	months [26 days	Hold to <6 months		
CONTRACT HOLDING TIM	IE (s)	Hold <10  days	Hold <10 days	prior to extraction,  40 days after		months [26 days	<12 days		
SAMPLE x S	SAMPLE	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS
SAMPLE   LOCATION	SAMPLING SCHEDULE	3 x 40 ml  glass  vial	3 x 40 ml  glass  vial	2 x 1 liter amber glass bottle	2 x 1 liter  amber  glass bottle		1 x 1 liter poly bottle		
OPF-11 (LAB QC)	DAY 1		<u> </u>   6	4	1	1	2		
OPF-12	DAY 2		3	2		1	1		
OPF-13	DAY 2	!   				1	1		
OPF-14	DAY 2					1	1		
OPF-15	DAY 2					1	1		
OPF-16	DAY 2					1	1		
OPF-17	DAY 2					1	1		
OPF-18	DAY 2					1	1		
·i	TOTALS		9	6		ે વ	q	    	

Table 3. Request for Analysis: Water

CLP ANALYSES	S REQUESTE	RAS+SAS		ROUTINE AM	IALYTICAL SERVI	CES (RAS)		SPECIAL ANALY SERVICES (SAS	
CHEMISTRY TY	YPE			ORGANICS		INOF	GANICS		
ANALYSES REC	QUESTED	RAS+SAS VOA's	RAS VOA's	RAS SEMI VOAS	RAS	RAS METALS (total)	RAS METALS (DISSOLVED)		
PRESERVATIV	ES	Add 2 drops 1:1 HCl Chill to 4	1:1 HCl	Chill to 4 C	Chill to 4 C	add HNO3 to pH <2	add HNO3 to pH <2		
ANALYTICAL	E (s)		days		prior to extraction,	months [26 days	Hold to <6 months		
CONTRACT  HOLDING TIM	E (s)	Hold <10 days	days	Hold <5 days prior to extraction, 40 days after extraction	prior to extraction,	months [26 days	<12 days		
SAMPLE x S	AMPLE	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS
SAMPLE   LOCATION	SAMPLING SCHEDULE	3 x 40 ml  glass  vial	3 x 40 ml  glass  vial	2 x 1 liter amber glass bottle *	amber	poly	1 x 1 liter  poly  bottle		
OPF-30 (BLANK)	DAY 1		3	2		1	   1 		
OPF-31 (BLANK)	DAY 2		3	2		1   1	1		
OPF-32 (DUPE OF OPF-1)	DAY 1	   	3	2		   1 	1		
OPF-33     (DUPE OF     OPF-12)	DAY 1		3	2		1	1		
	TOTALS	l	12	8		<b>&amp;</b>	<b>4</b>		

CLP ANALYSE	S REQUESTED		ANALISES REGUE		LYTICAL SERVIC	CES (RAS)		SPECIAL ANA	
CHEMISTRY T				ORGANICS		INORGANICS		- SERVICES (	SAS)
	IALYSES REOU	ESTED	RAS VOA's (low)	RAS   SEMI VOAS   (low)		RAS METALS (low)		TCLP     METALS	
PRESERVATIV	/ES		Chill to 4 C	Chill to 4 C		ANY RAS	ANY RAS		
EPA METHOD			8240	8250		METHOD	METHOD	<u>i</u>	
ANALYTICAL	HOLDING TIM		Hold <14  days	Hold <14 days  prior to  extraction,  40 days after  extraction		Hold to <6  months	Hold to <6  months		
CONTRACT HO	OLDING TIME	(s)	Hold <10 days	Hold <10 days prior to extraction, 40 days after extraction		Hold to <6  months	Hold to <6 months		
SAMPLE X	SAMPLE		NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS
SAMPLE LOCATION	SAMPLING   SCHEDULE	Low or	2 x 120 ml  glass vials  (or 1 Metal   Sleeve)	1 x 8 oz  glass jar  (or 1 Metal   Sleeve)*		1 x 8 oz  glass jar  (or 1 Metal   Sleeve)**	1 X 8 OZ  glass jar  (or 1 Metal   Sleeve)**	1 x 8 oz  glass jar 	
OPF-20	DAY 3	   	2	1		1	   	1	
   OPF-21 	DAY 3	     	   2 	1		1		1	
OPF-22 (LAB QC)	DAY 3	     	2	1		1		1	
OPF-23	DAY 3	   L 				1			
OPF-24	DAY 3	   				1		1	
OPF-25	DAY 3	     L 	     			1		1	
OPF-26	DAY 3	L				1			
OPF-27	DAY 3	   L				1		1	
	TOTALS	]	6	] 3		:   8	!	6	: 

			ANALYSES REQUE	.3160 /	AIRIX = SOIL				
CLP ANALYSE	S REQUESTED			ROUTINE ANA	LYTICAL SERVI	CES (RAS)		SPECIAL ANA	
CHEMISTRY T	YPE			ORGANICS		INORGANICS			
SPECIFIC AN	IALYSES REQUI	ESTED	RAS VOA's (low)	RAS   SEMI VOAS   (low)		RAS METALS (low)		TCLP METALS	
PRESERVATIV	/ES		Chill to 4 C	Chill to 4 C			ANY DAG		
PA METHOD			8240	!   8250		ANY RAS METHOD	ANY RAS METHOD		
ANALYTICAL HOLDING TIME (s)		E (s)	Hold <14 days	Hold <14 days prior to extraction, 40 days after extraction		Hold to <6 months	Hold to <6  months 		
CONTRACT HO	OLDING TIME	(s)	Hold <10  days	Hold <10 days prior to extraction, 40 days after extraction		Hold to <6  months	Hold to <6 months		
SAMPLE x S	SAMPLE		NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOITLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS	NO. OF BOTTLES PER ANALYSIS
SAMPLE LOCATION	SAMPLING SCHEDULE	Low or		1 x 8 oz  glass jar  (or 1 Metal   Sleeve)*		1 x 8 oz  glass jar  (or 1 Metal   Sleeve)**	1 X 8 OZ  glass jar  (or 1 Metal   Sleeve)**	1 x 8 oz  glass jar 	
OPF-28	DAY 3	L				1			
0PF-29	DAY 3	     				1			
OPF-34 (DUPE OF OPF-22)	DAY 3	   	2	1		1 1		1	
	DAY 3	   L 							]   
	DAY 3	   L							
	DAY 3	]   L 	     				       	<u> </u>   	
	DAY 3	L							     
	DAY 3	   L 				     	       		
	TOTALS	i	<u></u>   2	: 		:   1	<u>.</u>   2	<u></u>	:

### APPENDIX A

CLP Target Compound List and Quantitation Limits

# Target Compound List (TCL) and Contract Required Quantitation Limits (CRQL)\*

			Quar	ntitation Limits**
	•		Water	Low Soil/Sedimenta
	Volatiles	CAS Number	ug/L	ug/Kg
. 1.	Chloromethane	74-87-3	10	10
2.	Bromomethane	74-83-9	10	10
3.	Vinyl Chloride	75-01-4	10	10
	Chloroethane	75-00-3	10	10
5.	Methylene Chloride	75-09-2	5	5
6.	Acetone	67-64-1	10	10
7.	Carbon Disulfide	75-15-0	5	5
8.	l,l-Dichloroethene	75-35-4	5	5
9.	l,l-Dichloroethane	75-34-3	5	5
10.	1,2-Dichloroethene (total)	) 540 <del>-</del> 59-0	5	5
11.	Chloroform	67-66-3	5	5
12.	l,2-Dichloroethane	107-06-2	5	5
13.	2-Butanone	78-93-3	10	10
14.	l,l,l-Trichloroethane	71-55-6	5	5
	Carbon Tetrachloride	56-23-5	5	5
	Vinyl Acetate	108-05-4	10	10
17.	Bromodichloromethane	75 <del>-</del> 27-4	5	5
18.	1,2-Dichloropropane	78-87-5	5	5
19.	cis-1,3-Dichloropropene	10061-01-5	5	5
	Trichloroethene	79-01-6	5	5
21.	Dibromochloromethane	124-48-1	5	5
22.	1,1,2-Trichloroethane	79-00-5	5	5
23.	Benzene	71-43-2	5	5
24.	trans-1,3-		5	5
	Dichloropropene	10061-02-6		
25.	Bromoform	75-25-2	5	5
	4-Methyl-2-pentanone	108-10-1	10	10
	2-Hexanone	591-78-6	10	10
	Tetrachlöroethene	127-18-4	5	5
	Toluene	108-88-3	5	5
30.	1,1,2,2-Tetrachloroethane	79-34-5	5	5

(continued)

	Qua	ntitation Limits**
CAS Number	Water ug/L	Low Soil/Sediment <sup>a</sup> ug/Kg
108-90-7	5	5
100-41-4	5	5
100-42-5	5	5
1330-20-7	5	5
	108-90-7 100-41-4 100-42-5	CAS Number Ug/L  108-90-7 5 100-41-4 5 100-42-5 5

aMedium Soil/Sediment Contract Required Quantitation Limits (CRQL) for Volatile TCL Compounds are 125 times the individual Low Soil/Sediment CRQL.

<sup>\*</sup>Specific quantitation limits are highly matrix dependent. The quantitation limits listed herein are provided for guidance and may not always be achievable.

<sup>\*\*</sup>Quantitation limits listed for soil/sediment are based on wet weight. The quantitation limits calculated by the laboratory for soil/sediment, calculated on dry weight basis as required by the contract, will be higher.

# Target Compound List (TCL) and Contract Required Quantitation Limits (CRQL)\*

			Qua	antitation Limits**
			Water	Low Soil/Sedimentb
	Semivolatiles	CAS Number	ug/L	ug/Kg
2.5	n	100 05 2	10	230
	Phenol	108-95-2	10	330
	bis(2-Chloroethyl) ether	111-44-4	10	330
	2-Chlorophenol	95-57-8	10	330
	1,3-Dichlorobenzene	541-73-1	10	330
39.	l,4-Dichlorobenzene	106-46-7	10	330
40.	Benzyl alcohol	100-51-6	10	330
	l,2-Dichlorobenzene	95-50-1	10	330
	2-Methylphenol	95-48-7	10	330
	bis(2-Chloroisopropyl)			
	ether	108-60-1	10	330
44.	4-Methylphenol	106-44-5	10	330
45.	N-Nitroso-di-n-			
	dipropylamine	621-64-7	. 10	330
	Hexachloroethane	67-72-1	10	· 330
	Nitrobenzene	<del>9</del> 8-95-3	. 10	330
	Isophorone	78-59-1	10	330
49.	2-Nitrophenol	88-75-5	10	330
50.	2,4-Dimethylphenol	105-67-9	10	330
	Benzoic acid	65-85-0	50	. 1600
	bis(2-Chloroethoxy)	03 03 0	30	1000
	methane	111-91-1	10	330
53	2,4-Dichlorophenol	120-83-2	10	330
	1,2,4-Trichlorobenzene	120-82-1	10	330
	1,2, 111 cm of obenizene	120 02 1	10	550
	Naphthalene	-91-20-3	10	330
	4-Chloroaniline	106-47-8	10	330
	Hexachlorobutadiene	87 <b>-6</b> 8-3	10	330
58.	4-Chloro-3-methylphenol			
	(para-chloro-meta-cresol)	5 <b>9-</b> 50-7	10	330
59.	2-Methylnaphthalene	91 <b>-</b> 57-6	10	330
60	Hexachlorocyclopentadiene	77-47-4	10	220
	2,4,6-Trichlorophenol	88-06-2	10	330
	2,4,5-Trichlorophenol	95-95-4	50	330
63.	2-Chloronaphthalene	91-58-7		1600
	2-Nitroaniline	88-74-4	10	330
٠	~ WILLOGHITTING	00-74-4	50	1600

(continued)

		Quar	ntitation Limits**
		Water	Low Soil/Sedimentb
Semivolatiles	CAS Number	ug/L	ug/Kg
65. Dimethylphthalate	131-11-3	10	330
66. Acenaphthylene	208-96-8	10	330
67. 2,6-Dinitrotoluene	606-20-2	10	330
68. 3-Nitroaniline	99-09-2	50	1600
69. Acenaphthene	83-32-9	10	330
•			
70. 2,4-Dinitrophenol	51-28-5	50	1600
71. 4-Nitrophenol	100-02-7	50	1600
72. Dibenzofuran	132-64-9	10	330
73. 2,4-Dinitrotoluene	121-14-2	10	330
74. Diethylphthalate	84-66-2	10	330
75. 4-Chlorophenyl-phenyl			
ether	7005-72-3	10	330
76. Fluorene	86-73-7	10	330
77. 4-Nitroaniline	100-01-6	50	1600
78. 4,6-Dinitro-2-methylphenol	534-52-1	50	1600
79. N-nitrosodiphenylamine	86-30-6	10	330
80. 4-Bromophenyl-phenylether	101-55-3	10	330
81. Hexachlorobenzene	118-74-1	10	330
82. Pentachlorophenol	87-86-5	50	1600
83. Phenanthrene	85-01-8	10	330
84. Anthracene	120-12-7	10	330
85. Di-n-butylphthalate	84-74-2	10	220
86. Fluoranthene	206-44-0	10	330
87. Pyrene	129-00-0	10	330
88. Butylbenzylphthalate	85-68-7	10	330
89. 3,3'-Dichlorobenzidine	91-94-1	10 20	330 660
J, S SIGNION ODENZIALNE	71 J4-1	. 20	000
90. Benzo(a)anthracene	56-55-3	10	330
91. Chrysene	218-01-9	10	330
92. bis(2-Ethylhexyl)phthalate	117-81-7	10	330
93. Di-n-octylphthalate	117-84-0	10	330
94. Benzo(b)fluoranthene	205-99-2	10	330

		Quar	ntitation Limits**
		Water	Low Soil/Sediment b
Semivolatiles	CAS Number	ug/L	ug/Kg
95. Benzo(k)fluoranthene	207-08-9	10	330
96. Benzo(a)pyrene	50-32-8	10	<b>33</b> 0
97. Indeno(1,2,3-cd)pyrene	193-39-5	10	<b>3</b> 30
98. Dibenz(a,h)anthracene	53-70-3	10	330
99. Benzo(g,h,1)perylene	191-24-2	10	330

bMedium Soil/Sediment Contract Required Quantitation Limits (CRQL) for Semi-Volatile TCL Compounds are 60 times the individual Low Soil/Sediment CRQL.

<sup>\*</sup>Specific quantitation limits are highly matrix dependent. The quantitation limits listed herein are provided for guidance and may not always be achievable.

<sup>\*\*</sup>Quantitation limits listed for soil/sediment are based on wet weight. The quantitation limits calculated by the laboratory for soil/sediment, calculated on dry weight basis as required by the contract, will be higher.

	Contract Required Detection Limit (1,2)
Analyte	(ug/L)
Aluminum	200
Antimony	60
Arsenic	10
Barium	<b>20</b> 0
Beryllium	5
Cadmium	5
Calcium	5000
Chromium	10
Cobalt	50
Copper	25
Iron	100
Lead	5
Magnesium	5000
Manganese	15
Mercury	0.2
Nickel	40
Potassium	5000
Selenium	5
Silver	10
Sodium	5000
Thallium	10
Vanadium	50
Zinc	20
Cyanide	. 10

(1) Subject to the restrictions specified in the first page of Part G, Section IV of Exhibit D (Alternate Methods - Catastrophic Failure) any analytical method specified in SOW Exhibit D may be utilized as long as the documented instrument or method detection limits meet the Contract Required Detection Limit (CRDL) requirements. Higher detection limits may only be used in the following circumstance:

If the sample concentration exceeds five times the detection limit of the instrument or method in use, the value may be reported even though the instrument or method detection limit may not equal the Contract Required Detection Limit. This is illustrated in the example below:

#### For lead:

Method in use - ICP Instrument Detection Limit (IDL) - 40 Sample concentration - 220 Contract Required Detection Limit (CRDL) - 5



### THE O'BRIEN CORPORATION

February 19, 1986

U.S E.P.A. 215 Fremont Street San Francisco, CA 94105 T-3-2

Mr. Don Zuroski:

Please find enclosed copies of lab reports you requested.

Sincerely,

M. D. Burdine

Manager of Engineering

MDB/mar

Enclosures

### THE O'BRIEN CORPORATION



January 14, 1986 15 P1:40

REGINE REGINE

Mr. Donn Zuroski United States Environmental Protection Agency 215 Fremont Street #T-3-2 San Francisco, CA 94105

Dear Mr. Zuroski:

Please find enclosed my response to four of your five requests, which were:

- 1. A safety checklist used for new employees.
- 2. A copy of our contingency plan.
- 3. A copy of our waste analysis plan.
- 4. Photographs of Ralph's forklift after it had been cleaned.
- 5a. Lab reports for treated water released to the city.
- b. Lab report for water which was found in sump. (These reports were to be for P.H. 1b, barium.

The results from these tests will be forwarded to you as soon as we receive them from McIntosh Laboratories.

Sincerely,

Michael D. Burdine

Manager - Engineering Dept.

Michael K. 1. 16

MDB/mar

1. CHECK TREATMENT TANK FOR ANY STRUCTURAL DAMAGE. 2. CHECK 1 HATCH COVER ON 10,000 GALLON TANK FOR LEAKS. 3. CHECK 2 HATCH COVERS ON 20,000 GALLON TANK FOR LEAKS. 4. CHECK 10 VALVES AND STEMS FOR LEAKS ON TREATMENT TANK. 5. CHECK 5 VALVES AND STEMS FOR LEAKS ON 10,000 GALLON TANK. CHECK CONDITION OF NFPA WARNING SIGN ON 10,000 GALLON AND 6. 20,000 GALLON TANKS. 7. CHECK 3 OVERHEAD LINES GOING INTO TREATMENT TANK FOR LEAKS 8. CHECK 4 OVERHEAD VALVES AND STEMS FOR LEAKS. 9. CHECK SUMP PUMP FOR PROPER OPERATION. 66 10. CHECK SUMP PUMP FOR ANY LEAKS IN VALVES OR LINES. or 11. CHECK FREEBOARD ON SOLAR PONDS. ok 12. CHECK TIRES ON SPILL CONTROL CART. 1 HE 13. CHECK 2 FLASH LIGHTS FOR PROPER OPERATION ON SPILL CONTROL CART. AR 14. CHECK 8 EXTINGUISHERS FOR PROPER AIR LEVEL. OR 15. CHECK MINIMUM OF 10 BAGS OF ABSORBENT MATERIAL ARE ON SPILI CONTROL CART. ok 16. CHECK SPILL CONTROL CART FOR MINIMUM OF 2 PUSH BROOMS, 3 SCRAPERS, 3 SHOVELS, 3 SQUEEGES AND 2 OPENHEAD DRUMS. 17. CHECK SPILL CONTROL CART FOR MINIMUM OF 2 PAIRS OF WORK CHECK SPILL CONTROL CART FOR MINIMUM OF 10 DRUM GASKETS. 19. CHECK CONDITION OF WARNING SIGNS IN DRUM STORAGE AREA.
20. CHECK DRUM STORAGE AREA FOR ANY LEAKING DRUMS. OP 21. CHECK TO INSURE THAT ALL SAFETY CHAINS IN DRUM STORAGE AREA ARE IN PLACE. 22. CHECK DATES OF WASTE DRUMS TO INSURE THAT NO WASTE IS STORY MORE THAN 90 DAYS.

\*Note: DO NOT PUT A CHECK MARK IN THE ABOVE SPACES. IF OK WRITE OK. \*\*Note: IF ANY REPAIRS ARE MADE NOTE THEM BELOW AND DATE REPAIR MADE.

NOTES AND COMMENTS:

\* Hote #13 / Flash light not working, new one

Signature /

- INSPECTOR: JAC	K PEEK TIME: 8',00 A.M. DATE: 4-29-8.
/ Vok 1.	CHECK TREATMENT TANK FOR ANY STRUCTURAL DAMAGE.
VOK 2.	CHECK TREATMENT TANK FOR ANY ERROSICN.
	CHECK ALL HATCH COVERS FOR LEAKS.
/ok4.	. CHECK TREATMENT TANK VALVES AND STEMS FOR LEAKS.
	CHECK ALL OVERHEAD LINES GOING INTO TREATMENT TANK.
1 OK 6.	. CHECK ALL OVERHEAD VALVES AND STEMS FOR LEAKS.
V OK 7.	. CHECK SUMP PUMP FOR PROPER OPERATION.
V OK 8.	. CHECK SUMP PUMP FOR ANY LEAKS IN VALVES OR LINES.
3FEET OK V 9.	. CHECK FREEBOARD ON SOLAR PONDS.
VOK 10	CHECK SPILL CONTROL CART FOR PROPER OPERATION OF ALL EQUIPMENT.
V OK 11	TUSTIRE THAT ENGLISH RAW MATERIALS ARE ON SPILL CONTROL CART.

NOTES AND COMMENTS:

EVERYTHING IN PROPER ORDER. NOTHING-UNSUAL TO REPORT.

gack & S. Peck Jr.



409 MATHEW STREET

SANTA CLARA, CALIFORNIA 95050

11/5/85

(408) 727-6134

The O'Brien Corporation

Western Region 450 Grand Avenue

South San Francisco, CA

Attn: Michael Burdine

94080

9/13/85 Date Received:

Date Sampled:

Report Date:

By Whom: SML

Lab Number

Sample Identification

25960

Untreated Waste Wash Water

cc: Paul Keeny

	s in mg/I Unless Otherwise Noted.  DETERMINATION		<b>LAB NO.</b> 25960	LAB NO.		DETERMINATION	LAB NO.	LAB NO. 25960	LAB NO.
001	Acidity Total (CaCO <sub>3</sub> )				133	Nickel (Ni)		0.28	
003	Alkalinity Total (CaCO <sub>3</sub> )				201	Nitrate ( )			
005	Atkalinity Phth (CaCO <sub>3</sub> )				203	Nitrite ( )			
100	Aluminum (Al)				205	Nitrogen, Kjeldahl (N)			
200	Ammonia ( )				207	Nitrogen, Organic (N)			
103	Arsenic (As)		<b>&lt;</b> 0.02		027	Odor (TON)			
105	Barium (Ba)		28		401	Oil & Grease			
107	Beryllium (Be)				029	pH (Std Units)			
007	Bicarbonate (HCO <sub>3</sub> )				403	Phenolics		0.31	
300	Bio Oxygen Demand (O <sub>2</sub> )				290	Phosphate, Ortho ( )			
009	Boron (B)				211	Phosphorus, Total ( )			
011	Bromide (Br)				137	Potassium (K)			
109	Cadmium (Cd)		0.09		139	Selenium (Se)		< 0.01.	
111	Calcium (Ca)				031	Silica (SiO <sub>2</sub> )			
301	Carbon, Tti Organic (C)				141	Silver (Ag)		0.09	
012	Carbonate (CO <sub>3</sub> )				143	Sodium (Na)			
303	Chem. Oxygen Demand (O2)				033	Solids, Dissolved (TDS)			
013	Chloride (CI)				035	Solids, Settleable (ml/l/h)			
015	Chlorine, Residual (Cl2)				037	Solids, Suspended			
305	Chlorophyll ( )				039	Solids, Total			
113	Chromium (Cr+6)				041	Solids, Volatile			
115	Chromium, Total (Cr)		0.5		043	Sulfate (SO <sub>4</sub> )			
117	Cobalt (Co)				045	Sulfide (S)			
017	Color (APHA)		<u> </u>		047	Sulfite (SO <sub>3</sub> )			
019	Conductivity Specific				405	Surfactants (MBAS)			
	(umhos/cm)	1			051	Turbidity (FTU)			
119	Copper (Cu)		1.20		145	Zinc (Zn)		5.50	
120	Cyanide, Total (CN)		<b>&lt;</b> 0.01		307	Total Coliform			
	Fluoride (F)				1	(MPN/100 ml)			
025	Hardness (CaCO₃)				309	Fecal Coliform			
121	Iron (Fe)				1	(MPN/100 ml)			
123	Lead (Pb)		0.10		311	96 Hour Bioassay		1	
125	Magnesium (Mg)				]	TLSO			
127	Manganese (Mn)				1	%Survival			T
129	Mercury (Hg)		17		1			1	T
131	Molybdenum (Mo)			T	1	Thallium		K 0.2	T
`~	ento:					% Water ,	// /	97.3	



409 MATHEW STREET

SANTA CLARA, CALIFORNIA 95050

(408) 727-6134

The O'Brien Corporation

Western Region 450 Grand Avenue

South San Francisco, Calif. 94080

Attn: Michael Burdine

cc:

All Units in ma / Unless Otherwise Noted

Paul Keeny

Report Date: Date Received: 9/24/85 8/28/35

Date Sampled:

By Whom:

Client

Lab Number

Sample Identification

25621

Oil Base Sludge

25622

Filter Media

25623

Lead Bags or Dry Pigment

ĺ		s in mg/I Unless Otherwise Noted.		LAB NO.	LAB NO.	DETERMINATION	LAB NO.		
۱		DETERMINATION	25621	25622	25623	DETERMINATION	25621	25622	25623
١	001	Acidity Total (CaCO <sub>3</sub> )				133 Nickel (Ni)	_ 7	1.25	275
	003	Alkalinity Total (CaCO <sub>3</sub> )				201 Nitrate ( )			
ļ	005	Alkalinity Phth (CaCO <sub>3</sub> )				203 Nitrite ( )			
١	100	Aluminum (Al)				205 Nitrogen, Kjeldahl (N)			
	200	Ammonia ( )		7.0		207 Nitrogen, Organic (N)			
	103	Arsenic (As)	0.8	<0.1	2.6	027 Odor (TON)			
	105	Barium (Ba)	3300	13	450	401 Oil & Grease			
	107	Beryllium (Be)				029 pH (Std Units)			<u> </u>
')	007	Bicarbonate (HCO <sub>3</sub> )				403 Phenolics	0.10	0.03	0.14
1	300	Bio Oxygen Demand (O2)				290 Phosphate, Ortho (	)		
	009	Boron (B)				211 Phosphorus, Total (	)		
	011	Bromide (Br)				137 Potassium (K)			
	109	Cadmium (Cd)	0.60	0.15	0.90	139 Selenium (Se)	20.2	K0.2	< 0.2
	111	Calcium (Ca)				031 Silica (SiO <sub>2</sub> )			
	301	Carbon, Ttl Organic (C)				141 Silver (Ag)	0.55	0.15	0.20
	012	Carbonate (CO <sub>3</sub> )				143 Sodium (Na)			
	303	Chem. Oxygen Demand (O2)				033 Solids, Dissolved (TDS)			
	013	Chloride (CI)				035 Solids, Settleable (ml/l/h	)		
	015	Chlorine, Residual (Cl2)				037 Solids, Suspended			
	305	Chlorophyll ( )				039 Solids, Total			<u> </u>
	113	Chromium (Cr+6)				041 Solids, Volatile			<u> </u>
	115	Chromium, Total (Cr)	2100	4.6	1100	043 Sulfate (SO <sub>4</sub> )			
	117	Cobalt (Co)				045 Sulfide (S)	<u> </u>	<u> </u>	<u> </u>
	017	Color (APHA)				047 Sulfite (SO <sub>3</sub> )			
	019	Conductivity Specific		1		405 Surfactants (MBAS)			
		(umhos/cm)				051 Turbidity (FTU)			ļ
	119	Copper (Cu)	142	2.1	2.3	145 Zinc (Zn)	1700	4.4	3150
	120	Cyanide, Total (CN)	0.30	₹0.01	0.06	307 Total Coliform		1	
	023	Fluoride (F)		ļ	<u> </u>	(MPN/100 ml)			<u> </u>
	025	Hardness (CaCO₃)				309 Fecal Coliform			
	121	Iron (Fe)				(MPN/100 ml)			
	123	Lead (Pb)	7800	200	4750	311 96 Hour Bioassay			
	125	Magnesium (Mg)				TL <sup>50</sup>			
1	127	Manganese (Mn)				%Survival			
•	129	Mercury (Hg)	10	0.14	0.18	Thallium	3.0	0.5	1.0
	131	Molybdenum (Mo)			<u> </u>				

Comments:

\* All units in ug/g

By Wall Muntin. 1.



409 MATHEW STREET

SANTA CLARA, CALIFORNIA 95050

(408) 727-6134

The O'Brien Corporation Western Region 450 Grand Avenue South San Francisco, Calif.

Attn: Michael Burdine

94080

Report Date: Date Received: 7/25/85 6/20/85

Date Sampled:

By Whom:

SML

Lab Number

Sample Identification

24601

Wastewater treatment sludge

All Units in mg/I Unless Otherwise Noteds:

	DETERMINATION	LAB NO.	LAB NO. 24601	LAB NO.		DETERMINATION	LAB NO.	LAB NO. 24601	LAB NO.
001	Acidity Total (CaCO <sub>3</sub> )				133	Nickel (Ni)		1.7	
003	Alkalinity Total (CaCO <sub>3</sub> )				201	Nitrate ( )			
005	Alkalinity Phth (CaCO <sub>3</sub> )				203	Nitrite ( )			
100	Aluminum (Al)				205	Nitrogen, Kjeldahl (N)			
200	Ammonia ( )				207	Nitrogen, Organic (N)			
103	Arsenic (As)		0.19		027	Odor (TON)			
105	Barium (Ba)		130_		401	Oil & Grease			
107	Bery Gum (Be)				029	pH (Std Units)			
007	Bicarbonate (HCO <sub>3</sub> )				403	Phenolics		0.23	
300	Bio Oxygen Demand (O2)				290	Phosphate, Ortho ( )			
009	Boron (B)				211	Phosphorus, Total ( )			
1	Bromide (Br)				137	Potassium (K)			
109	Cadmium (Cd)		0.5		139	Selenium (Se)		0.01	
111	Calcium (Ca)				031	Silica (SiO <sub>2</sub> )			
301	Carbon, Ttl Organic (C)				141	Silver (Ag)		0.4	
012	Carbonate (CO <sub>3</sub> )				143	Sodium (Na)			
303	Chem. Oxygen Demand (O2)				033	Solids, Dissolved (TDS)			
013	Chloride (CI)				035	Solids, Settleable (ml/l/h)			
015	Chlorine, Residual (Cl2)				037	Solids, Suspended			
305	Chlorophyll ( )				039	Solids, Total			
113	Chromium (Cr+6)		0.05		041	Solids, Volatile			
115	Chromium, Total (Cr)		6.0		043	Sulfate (SO <sub>4</sub> )			
117	Cobalt (Co)				045	Sulfide (S)		0.5	
017	Color (APHA)				047	Sulfite (SO <sub>3</sub> )			
019	Conductivity Specific				405	Surfactants (MBAS)			
1	(umhos/cm)				051	Turbidity (FTU)			
119	Copper (Cu)		5.2		145	Zinc (Zn)		92	
120	, , , , , , , , , , , , , , , , , , , ,		0.14		307	Total Coliform			
023	Fluoride (F)					(MPN / 100 ml)			
025	Hardness (CaCO <sub>3</sub> )				309	Fecal Coliform			
121	Iron (Fe)				1	(MPN / 100 ml)			
123	Lead (Pb)		14.8		311	96 Hour Bioassay			T
125	Magnesium (Mg)				]	TL <sup>50</sup>			
127	Manganese (Mn)					%Survival			
129	Mercury (Hg)		75		] Tha	allium		2	
131	Molybdenum (Mo)					of water		81.2%	

Comments:

\* All units in micrograms/gram



409 MATHEW STREET

SANTA CLARA, CALIFORNIA 95050

(408) 727-61:

The O'Brien Corporation Western Region 450 Grand Avenue South San Francisco, CA94080

Attn: Michael Burdine

✓ cc:

Paul Keeny

Report Date:

8/30/85

Date Received: Date Sampled:

8/9/85

By Whom:

8/8/85 Client

Lab Number

Sample identification

25313

Wastewater

	DETERMINATION	LAB NO.	LAB NO. 25313	LAB NO.		DETERMINATION	LAB NO.	LAB NO. 25313	LAB NO
001	Acidity Total (CaCOs)				133	Nickel (Ni)			
003	Alkalinity Total (CaCO <sub>3</sub> )				201	Nitrate ( )			1
005	Alkalinity Phth (CaCOs)	·			203	Nitrite ( . )			
100	Aluminum (AI)			٠.	205	Nitrogen, Kjeldahl (N)			
200	Ammonia ( )				207	Nitrogen, Organic (N)			
103	Arsenic (As)				027	Odor (TON)			
105	Barium (Ba)				401	Oil & Grease		2,6	
107	Beryllium (Be)				029	pH (Std Units)		6.7	
007	Bicarbonate (HCO <sub>3</sub> )			٠, ١	403	Phenolics			
300	Bio Oxygen Demand (O2)				290	Phosphate, Ortho ( )			
009	Boron (B)				211	Phosphorus, Total ( )			
011	Bromide (Br)				137	Potassium (K)			
109	Cadmium (Cd)				139	Selenium (Se)			
111	Calcium (Ca)				031	Silica (SiO <sub>2</sub> ) · *			
301	Carbon, Ttl Organic (C)				141	Silver (Ag)			T
012	Carbonate (CO <sub>3</sub> )		1		143	Sodium (Na)			
303	Chem. Oxygen Demand (O2)	. •	83 .		033	Solids, Dissolved (TDS)			T
013	Chloride (CI)		1		4 ^	Solids, Settleable (ml/l/h)			
015	Chlorine, Residual (Cl2)	,			4	Solids, Suspended		24	
305	Chlorophyll ( )	· · · · · · · · ·			039	Solids, Total			
113	Chromium (Cr+•)				041	Solids, Volatile			
115	Chromium, Total (Cr)		0.02		043	Sulfate (SO <sub>4</sub> )			1
117					045	Sulfide (S)		-	
017	Color (APHA)	-		1	047				
019	Conductivity Specific	-			405	Surfactants (MBAS)			<del></del>
	(umhos/cm)	1			051	Turbidity (FTU)			1
119	Copper (Cu)	- X -	0.01		145	Zinc (Zn)		0.24	
120	Cyenide, Total (CN)				307	Total Coliform	,		
023	Fluoride (F)				1	(MPN/100 ml)			-
025	Hardness (CaCO <sub>3</sub> )				309	Fecal Coliform			T
121	Iron (Fe)				1	(MPN/100 ml)			i
123	Lead (Pb)		0.07		311	96 Hour Bloassay			
125	Magnesium (Mg)		- × • × · -		1	T[50			
127	Manganese (Mn)	<u> </u>			1	%Survival			
129	Mercury (Hg)		0.0005		1	25% Dilution TL <sub>5Q</sub>		100%	
131	Molybdenum (Mo)		7.17.2.2	<u> </u>	1	25% D11001011 135Q		1 × × × × × × × × × × × × × × × × × × ×	

Comments:

_			
Rv.	· · · · · · · · · · · · · · · · · · ·		
~,		 	 



409 MATHEW STREET SANTA CLARA, CALIFORNIA 95050 (408) 727-613

### FISH BIOASSAY REPORT

escripti	on of	E Sam	ples:	Wastewate	r	٠				Da	te R	eceiv	ed:_	8/	9/85	
Jource:	Ful.	ler O	Brien:		:	·			c	llec	ted	by: _	Cli	ent	·	<u></u>
JUMMARY O	F RES	SULTS			SAMPI	LE AS	RECEI	VED					•	, '		
	24 Ho 48 Ho 72 Ho	ours ours ours	tion	* * *	I	Oxyg	C <u>23</u> ved	<del></del> g/1)	•	(n	ng/1)	C12 _				
			•		ANA	ALYTIC.	AL DA	<u>ra</u>			•	<u> </u>				
est <b>Spec</b>	ies:			teus acul	eatus			Sour	e_of	Fish	es:	Thon	nas F	ish	Compa	ny
size:	1½		inches		Sou	nce o	f Dil	ution	n Wate	er: _	Art	ifici	al		<del>-,- , , , , , , , , , , , , , , , , , ,</del>	
sample <b>Di</b>	lutio	on Po	rtions (	were) (we	ere no	ot) ae	rated	•				•				
				10				st so	oluti	ุกรุ เ	vere	test	ed.			
Cest star	ted:		8/9/	85 ·	,		4	Tes	t ende	ed: _		8/13/	<u> 85_</u>		<del></del>	
<b>.</b>		•		•	віол	ASSAY	RESUL	rs							÷.	
/ ppm Samble			Hours	48								Hou		<del>_</del>	Surv	
		ths S	<del></del>	Deaths	<del></del>								•	<u> </u>	Fin	21
25	0		10	0 .	. 10	<u> </u>	0		10		) .	<u>.</u>	.0	+-	100	
				<del>-  </del>			<del></del>	<del> </del>	<del></del>	+-	·			-		
	•				<u> </u>		<del> </del>	<del> </del>	<del></del>		<del></del>			+		
<del></del>					10	-				-	<del></del>			-	100	··
Control	0		10		<u>10</u>	<del> -</del>	0 .		10		)	·	.0	<del> </del>	100	
Temp °C	!	ا الاستان	17		<u>* 18</u>	l_			18			l1	Ч		<del></del>	
			O Hour	•	CHEM	ICAL A	SSAY	DATA								
			O Hour		2	4 Hour	s	4	8 Hou	rs_	7	2 Hou	rs	9	16 Ho	ırs
ppm Sample	Нq	ALK	ng/1	Hardness (mg/l CaCO <sub>3</sub> )	Нq	ALK mg/l CaCO <sub>3</sub>	DO	pH.	ALK	DO	нq	ALK	DO	рн	ALK	DO
25	7 3				7.7		9.1	7.8		9.2	7.8		9.0	7.9		9.1
25	1-/-3	<del>                                     </del>	8.4													
<u> </u>		<del>                                     </del>							· .							
<u> </u>	<del> </del>															
l	<del>                                     </del>	·	·		<del>-</del>											
1	1	<del>                                     </del>								,						
Control	8.0	<del>                                     </del>	9:2		7.9	•	9.3	7.9		9.3	8.0		9 3	8.0		9.3

Tested by:



409 MATHEW STREET

SANTA CLARA, CALIFORNIA 95050

(408) 727-6134

The O'Brien Corporation Western Region 450 Grand Avenue

450 Grand Avenue South San Francisco, Calif. 94080 Report Date: Date Received: 6/27/85 6/17/85 6/17/85

Date Sampled: By Whom:

Client

Lab Number

Sample Identification

Attn: Michael Burdine

24550

Composite

	DETERMINATION	LAB NO.	LAB NO. 24550	LAB NO.		DETERMINATION	LAB NO.	<b>LAB NO.</b> 24550	LAB NO.
001	Acidity Total (CaCO <sub>3</sub> )				133	Nickel (Ni)			
003	Alkalinity Total (CaCO <sub>3</sub> )				201	Nitrate ( )			
005	Alkalinity Phth (CaCO <sub>3</sub> )				203	Nitrite ( )			
100	Aluminum (AI)				205	Nitrogen, Kjeldahl (N)			
200	Ammonia ( )				207	Nitrogen, Organic (N)			
103	Arsenic (As)				027	Odor (TON)			
105	Barium (Ba)				401	Oil & Grease			
107	Beryllium (Be)				029	pH (Std Units)		7.4	
007	Bicarbonate (HCO <sub>3</sub> )				403	Phenolics			
300	Bio Oxygen Demand (O2)				290	Phosphate, Ortho ( )			
009	Boron (B)				211	Phosphorus, Total ( )			
011	Bromide (Br)				137	Potassium (K)			
109	Cadmium (Cd)				139	Selenium (Se)			
111	Calcium (Ca)				031	Silica (SiO <sub>2</sub> )			
301	Carbon, Ttl Organic (C)		7		141	Silver (Ag)			
012	Carbonate (CO <sub>3</sub> )				143	Sodium (Na)			1
303	Chem. Oxygen Demand (O2)		147		033	Solids, Dissolved (TDS)		Ī	
013	Chloride (CI)				035	Solids, Settleable (ml/l/h)			
015	Chlorine, Residual (Cl <sub>2</sub> )				037	Solids, Suspended		27	
305	Chlorophyll ( )				039	Solids, Total			
113	Chromium (Cr+6)				041	Solids, Volatile			
115	Chromium, Total (Cr)		0.03		043	Sulfate (SO <sub>4</sub> )		i i	
117	Cobalt (Co)				045	Sulfide (S)			
017	Color (APHA)				047	Sulfite (SO <sub>3</sub> )			
019	Conductivity Specific				405	Surfactants (MBAS)			
	(umhos/cm)				051	Turbidity (FTU)			
119	Copper (Cu)				145	Zinc (Zn)		0.25	
120	Cyanide, Total (CN)				307	Total Coliform		1	
023	Fluoride (F)				1	(MPN/100 ml)		1	
025	Hardness (CaCO₃)				309	Fecal Coliform			
121	Iron (Fe)		1		1	(MPN/100 ml)			
123	, .		0.04		311	96 Hour Bioassay			
	Magnesium (Mg)				1	TL <sup>50</sup>			
127					1	%Survival in 25%			
129	Mercury (Hg)		0.010	)	1	dilution		100%	
131	Molybdenum (Mo)		1		1			1 -5576	1

Comments:

By WWW British



409 MATHEW STREET SANTA CLARA, CALIFORNIA 95050 (408) 727-6134

w./			சேப் ந	IOASS		F D O D T			•
escripti	on of Sa	mples:					•	eceived:	6/17/85
		The		A .					
JUMMARY O				SAMPLE AS					
-	24 Hours 48 Hours		* * * * * * * * * * * * * * * * * * *	- Disso	7.4 °C 20 olved /gen (mg 6.4	R∈	esidual (mg/1) emarks:	C12	
				ANALYT	CAL DAT	`A			
est Spec	ies: <u>S</u> a	almo gairdn	erii		5	Source of E	ishes:	Thomas Fi	sh Co.
Size:	1 1/2	inches		Source	of Dilu	ition Water	· :	artificia	1
	10 fi	Portions (v		10 liters	s of tes	st solution			i
rest star	tea:	6	)/1//85			rest ended	·	6/21/85	
7			•	BIOASSA	Y RESULI	<u>rs</u>			
Percent		1 Hours		3 Hours				Hours	% Survival
Sample	Deaths	Survivors	Deaths	Survivors	Deaths	Survivors	Deaths	Survivors	Final
25%	0	10	0	10	0	10	0	10	100%
		·		,					
<del></del>									
Control	0	10	0	10	0	10	0	10	100%

### CHEMICAL ASSAY DATA

			0 Hour		2	4 Hours		4	3 Hou	rs	72	Hou:	rs_	9	6 Hoi	ırs
Percent Sample	Нզ	ALK	mg/l Diss. O <sub>2</sub>	Hardness (mg/l CaCO <sub>3</sub> )	Hq	ALK mg/l CaCO <sub>3</sub>	DO	рН	ALK	∞	рН	ALK	DO	рĦ	ALK	DO
25%	7.4		8.8		8.1		9.3	7.9		9.3	8.0		9.6	8.N		9.4
																ļ 
									-							ļ
(																<u> </u>
														ļ		
Control	7.8		8.9		8.2		9.3	7.9		9.3	7.9		9.7	8.0		9.4



409 MATHEW STREET

SANTA CLARA, CALIFORNIA 95050 (408) 727-6134

The O'Brien Corporation Western Region 450 Grand Avenue South San Francisco, Calif. 94080 Report Date: Date Received:

3/6/85 2/13/85

Date Sampled: By Whom:

2/13/85 Client

Lab Number

Sample Identification

Attn: Michael Burdine

22322

Composite

		DETERMINATION	LAB NO.	LAB NO. 22322	LAB NO.		DETERMINATION	LAB NO.	22322	LAB NO
	001	Acidity Total (CaCO <sub>3</sub> )				133	Nickel (Ni)			
	003	Alkalinity Total (CaCO <sub>3</sub> )				201	Nitrate ( )			
	005	Alkalinity Phth (CaCO <sub>3</sub> )				203	Nitrite ( )			
	100	Aluminum (Al)				205	Nitrogen, Kjeldahl (N)			
	200	Ammonia ( )				207	Nitrogen, Organic (N)			
	103	Arsenic (As)				027	Odor (TON)			
	105	Barium (Ba)				401	Oil & Grease			
	107	Beryllium (Be)				029	pH (Std Units)		7.3	İ
7	007	Bicarbonate (HCO <sub>3</sub> )				403	Phenolics			
١.	300	Bio Oxygen Demand (O <sub>2</sub> )				290	Phosphate, Ortho ( )			
	009	Boron (B)				211	Phosphorus, Total ( )			<u> </u>
	011	Bromide (Br)				137	Potassium (K)			
	109	Cadmium (Cd)				139	Selenium (Se)			
	111	Calcium (Ca)				031	Silica (SiO <sub>2</sub> )			
	301	Carbon, Ttl Organic (C)				141	Silver (Ag)			
	012	Carbonate (CO <sub>3</sub> )				143	Sodium (Na)			
	303	Chem. Oxygen Demand (O2)		55		033	Solids, Dissolved (TDS)			
	013	Chloride (CI)				035	Solids, Settleable (ml/l/h)			
	015	Chlorine, Residual (Cl2)				037	Solids, Suspended		32	
	305	Chlorophyll ( )				039	Solids, Total			
	113	Chromium (Cr+6)				041	Solids, Volatile			
	115	Chromium, Total (Cr)		0.04		043	Sulfate (SO:)			
	117	Cobalt (Co)				045	Sulfide (S)			1
	017	Color (APHA)				047	Sulfite (SO <sub>3</sub> )			
	019	Conductivity Specific				405	Surfactants (MBAS)			
		(umhos/cm)	1			051	Turbidity (FTU)			T
	119	Copper (Cu)				145	Zinc (Zn)		0.05	
	120	Cyanide, Total (CN)	-			307	Total Coliform			<u> </u>
	023	Fluoride (F)				1	(MPN / 100 ml)			1
	025	Hardness (CaCO₃)				309	Fecal Coliform			
	121	Iron (Fe)				1	(MPN / 100 ml)			
	123	Lead (Pb)		0.04		311	96 Hour Bioassay		<u> </u>	<del> </del>
	125	Magnesium (Mg)				1	TL <sup>50</sup>			
	127	Manganese (Mn)				1	%Survival in 25%			<b>—</b>
	129	Mercury (Hg)		0.013		1	dilution		100%	
-	131	Molybdenum (Mo)		1		1			1 200/8	1

Comments:



409 MATHEW STREET SANTA CLARA, CALIFORNIA 95050 (408) 727-6134

		.`	r	<u> </u>		н_		3 1	 <u> </u>	2		_^_	<u>.</u>	n	 	 	<u> </u>				
escription o	f S	Samples	:	SM	L/	223	322	2	Con	τpo	si	.te					-	Date	Re	cei	ve
		Ful	-,													C	<b>. 1</b> .	lecte	d b	v •	

Description of Samples: SML/22322 Composite	Date Received:	2/1.3/60
Source: Fuller O'Brien	Collected by:	Client
SUMMARY OF RESULTS SAMPLE AS RECE	CIVED	"!
TLm       pH       7.9         24 Hours       %       Temp °C         48 Hours       %       Dissolved         72 Hours       %       Oxygen         96 Hours       %       3.0	18 (mg/1) Remarks: (mg/1)	
ANALYTICAL I Test Species: <u>Gasterosteus aculeatus</u>		n Company
Size: 1 1/2 inches Source of D	• '	
Sample Dilution Portions (were) (were not) aerate  10 fishes per 10 liters of	•	
Test started: 2/13/85	Test ended: 2/17/8	35
	T m6	·

<b>?</b> ነ		• •								
Percent	. 24	4 Hours	46	Hours	72	2 Hours	96	Hours	%	Survival
Sample	Deaths	Survivors	D <b>e</b> aths	Survivors	Deaths	Survivors	Deaths	Survivors		Final
25	0	10	0	10	0	10	0	10	*	100%
				,						
			·							<del></del>
	<u> </u>								<del> </del>	
	<u> </u>	<u> </u>							_	
Control		ļ				·	<u> </u>		ļ	
Temp 'C							1			

### CHEMICAL ASSAY DATA

	T		0 Hour	•	2	4 Hours		4	3 Hou	rs	72	Hou	rs	9	6 Hət	ırs
Percent Sample	рH	ALK	mg/l Diss. O <sub>2</sub>	Hardness (mg/l CaCO <sub>3</sub> )	рН	ALK mg/l CaCO <sub>3</sub>	DO	рН	ALK	DO	рH	ALK	DO	рН	ALK	DO
25	7.1		8.5		7.6	-	9.6	7.4		9.5	7.4		9.6	7.4		9.5
		· ·					<u> </u>									ļ
						-										
Control	7.0		9.5		6.5		9.9	7.0		9 5	7.0		9 4	7 1		96



409 MATHEW STREET

SANTA CLARA, CALIFORNIA 95050

(408) 727-6134

The O'Brien Corporation

Western Region

450 Grand Avenue

South San Francisco, Calif. 94080 By Whom:

Report Date:

Date Received: Date Sampled:

12/18/84 12/13/84

1/17/85

Client

Lab Number

Sample Identification

Attn: Michael Burdine

21723

Composite

	ts in mg I Unless Otherwise Noted.  DETERMINATION	LAB NO.	LAB NO. 21723	LAB NO.		DETERMINATION	LAB NO.	LAB NO. 21723	LAB NO
001	Acidity Total (CaCO <sub>3</sub> )				133	Nickel (Ni)			
003	Alkalinity Total (CaCO <sub>3</sub> )				201	Nitrate ( )			
005	Alkalinity Phth (CaCO <sub>3</sub> )				203	Nitrite ( )			
100	Aluminum (AI)				205	Nitrogen, Kjeldahl (N)			
200	Ammonia ( )				207	Nitrogen, Organic (N)			
103	Arsenic (As)				027	Odor (TON)			
105	Barium (Ba)				401	Oil & Grease			
107	Beryllium (Be)				029	pH (Std Units)		7.5	
007	Bicarbonate (HCO <sub>3</sub> )				403	Phenolics			
300	Bio Oxygen Demand (O2)				290	Phosphate, Ortho (	)		
009	Boron (B)				211	, ,	)		
011	Bromide (Br)				137	Potassium (K)			
109	Cadmium (Cd)			· · · · · · · · · · · · · · · · · · ·	139	Selenium (Se)			
111	Calcium (Ca)				031	Silica (SiO <sub>2</sub> )			
301	Carbon, Ttl Organic (C)				141	Silver (Ag)			
012	Carbonate (CO <sub>3</sub> )				143	Sodium (Na)			
303	Chem. Oxygen Demand (O2)		591		í	Solids, Dissolved (TDS)			
013	Chloride (CI)		<b>J</b>		4	Solids, Settleable (ml/1/	(h)		
015	Chlorine, Residual (Cl2)				4	Solids, Suspended		22	T
305	Chiorophyll ( )				4	Solids, Total			
113	Chromium (Cr+6)				041	Solids, Volatile			
115	Chromium, Total (Cr)		0.02		043	Sulfate (SO <sub>4</sub> )			
117	Cobalt (Co)				045	Sulfide (S)			
017	Color (APHA)				047	Sulfite (SO <sub>3</sub> )			1
019	Conductivity Specific				405	Surfactants (MBAS)			
	(umhos/cm)					Turbidity (FTU)			<del></del>
119	Copper (Cu)		<b>&lt;</b> 0.01		145	Zinc (Zn)		0.05	
120	Cyanide, Total (CN)		1		307	Total Coliform		<u> </u>	<del> </del>
023	Fluoride (F)					(MPN/100 ml)			
025	Hardness (CaCO₃)		<u> </u>		309	Fecal Coliform			<del> </del>
121	Iron (Fe)				1	(MPN/100 ml)			1
123	Lead (Pb)		0.07		311	•			
125	Magnesium (Mg)		V. V/		i	TL <sup>So</sup>			
127	Manganese (Mn)				1	%Survival in 25%			
129	Mercury (Hg)		0.030		1	dilutio	m	100%	
	Molybdenum (Mo)				ł	GLIGGE	/L	100/2	1

Comments:



409 MATHEW STREET SANTA CLARA, CALIFORNIA 95050 (408) 727-6134

<b>)</b> escriptio	n of	 Samp	les: S	ML/21723	- Vas	tewater	Comp	posit	te	_	te R	eceiv	ed:	12/1	.8/85	
Source:				•					Co							
SUMMARY OF				,		E AS R			<del></del>			_		<u>, , 7, 14, .</u>		
TLm	24 Ho 48 Ho 72 Ho			_ % _ % _ % _ %	P T	н 7.	.2 1 ed	<del>                                      </del>	R	emar	ks:	C12 _				
	٠.	•	. :			LYTICA		_								
fest Spec															mpan	Δ
Size:		1 1/2	inches		Sot	rce of	Dilu	tion	Wate	r: _		art	ific	<u>ial</u>		
Sample Di												·				
20	)	_fish	nes per	20	li	iters o	f tes	t so	lutio	ns v	ve <b>re</b>	teste	ed.			
Test star	ted:		12/1	8/84				Test	ende	d: _		12/22	2/84			
				•	BIO	ASSAY R	ESULI	<u>'s</u>								
				48			72			96 Hours ors Deaths Survivors			<b></b>	Survi		
		ins   St								1						
100	0_		20	0	. 20	)	0	20		0			20	+	100%	
									<del></del>	-				+		
		,	<del></del>	1	··-·					-						·····
			10	0	10		0	10				10		100%		
Control			14	<del>                                     </del>	15		0	16		<del>  '</del>				100/3		
Тетр °С	<u>.                                    </u>		14 :					10				15	· · · · · ·			
						ICAL AS			:					····		
Percent	<u> </u>		0 Hour	Hardness	2	4 Hours	3	- 48	3 Hour	s	72	Hou	rs	9	6 Hoi	ırs
Sample	рH	ALK	Diss.	(mg/l CaCO <sub>3</sub> )	Нq	mg/l CaCO <sub>3</sub>	DO	рН	ALK	DO	Нq	ALK	DO	pН	ALK	DO
100	7.2		7.6		7.4		9.4	7.5		9.4	7.5		9.2	7.5		9.3
									•							
					1	-										
, .		•												1		
					1											
Control	7.3		8.6		7.4	T	10.2	7.6		9.5	7.2		9.9	7.3		9.8





October 14, 1985

At 10:20 am on Friday, October 11, 1985, a Plant-wide fire drill was held.

The volunteer Firemen responded to the area of the alarm within three minutes, with the firetruck and other fire fighting equipment.

All areas were quickly evacuated.

Michael Burdine

MB/mar

303 FIFTH AVENUE, NEW YORK, NY 10016 212-689-3180

Date: APR 13,1534

O'BRIEN CORP

ATTN: AUDREY MURRAY

RISK MANAGER

550 EAST GRAND STREET

SOUTH SAN FRANCISCO, CA 94080

#### CONFIRMATION OF BOOKING(s) (Subject to "Conditions of Loan" enclosed - Please READ THEM)

The following title(s) (16mm, sound film, unless otherwise indicated) has (have) been reserved for you as indicated:

TITLE	SHIPPING DATE	SHOW DATE(s) RETURN DATE
AUTOMATIC SPRINKLERS: MYTHS & MAGIC	APR 30,1984	· HAY 11-18,1981; HAY 21,1984
FLAME PROPAGATION	MAY 25,198h	JUN 11-15, 1984 JUN 13, 1984
THOSE VITAL FIRST MINUTES	JUN 29,1984	JUL 16-20,1984 JUL 23,1984

these films were shown the the fire bugade.

If any changes or corrections are necessary, please return this confirmation to us with your instructions.

We will ordinarily ship to you via HP3 Ground.

Thank you for your order.

TRIBUNE FILMS, INC.

#Indicates First Available Date booking.

#### THE O'BRIEN SPILL CONTROL PLAN

ADMIDS NO.

Spills of oil, resins or solvents, whether inside or outside of buildings, are considered to be a hazard to personnel; to O'Brien property and to the environment. For several years now we have engaged the services of a consulting firm of "RESOURCES ENGINEERING AND MANAGEMENT" to guide us in the containment of tank spills that might otherwise contaminate; (1) the South San Francisco sewer system, (2) the waters of San Francisco Bay of (3) the atmosphere. The O'Brien. Corporation has implemented the numerous recommendations related to product containment by the construction of dikes, curbs, moats and perimeter walls. The \*Company has also established an employee Spill Control Team that can respond to spills by using the facilities of the Spill Cart, which contains a supply of shovels, foam containers and absorbent materials that can be utilized quickly to either contain or divert material spills. The five (5) Spill Team members are employees of the O'Brien maintenance department and the Spill Cart is maintained at that location.

For spills that may occur inside of any of the paint manufacturing buildings, the O'Brien has established instructions named: "Standard Operating Procedures for Spills". These instructions are a guide to employees that may be called upon to contain or clean up paint or raw material spills. This is particularly helpful for the employees working at night, when there are only a few employees on hand. It is also a matter of importance from the standpoints of:

HEALTH HAZARD
FIRE HAZARD
ENVIRONMENTAL CONTAMINATION
PRODUCT CONTAMINATION

O'Brien has formulated the following points that should be passed on to the various managers, supervisors, foremen and employees by posting on each floor of manufacturing buildings.

### STANDARD OPERATING PROCEDURES FOR SPILLS

- 1. Stop the flow of oil, resin or solvent that has spilled.
- Call for the Spill Cart if help is needed.
- 3. Spray foam on any flammable spill to reduce fire danger.
- 4. Contain or stop the spill from spreading.
- 5. Use a respirator when harmful fumes are present.
- 6. Use non-sparking shovels and brooms to pick up spilled material.
- 7. Put spill, or pump spill into container with water.
- 8. Remove the containers of spill and water from the building.
- Report incident and cause to supervisor.
- 10. Supervisor will request equipment repair and replacement of foam.

NO "OFFICIAL DATE"

GIVEN FOR THESE DOCUMENTS

\* BELIEVED TOBEPARETHES TO A

DISASSEMBLED INSPECTION REPORT \*\*

#### UNIFORM HAZARDOUS HASTE MANIFEST DOCUMENT PROCEOURES

#### Information required on the manifest:

The second second

11. 1/634

- 1. A manifest document number and a state manifest document number.
- 2. Generator's name, address, telephone number and EPA identification number.
- 3. Each transporter's name, telephone number, EPA identification number and state transporter's ID number.
- Designated facility name, address, telephone number, EPA identification number and the state facility's ID number.
- 5. United States D.O.T. description, including proper shipping name, hazard class and ID number.
- The total quantity of each waste by weight or volume and the type and number of containers.
- Additional descriptions for materials.
- 8. Special handling instruction and additional information: list alternate T.S.D.F. name, address, phone number and EPA I.D. number.
- 9. A signed and dated certification that is to read:
  - "I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, labeled and are in all respects in proper condition for transport by highway according to applicable international and national government regulations."
- 10. Each transporter's signed and dated acknowledgement of receipt of materials.
- 11. Any discrepancies.
- 12. Name, date and signature of facility owner, operator certifying receipt of hazardous materials covered by this manifest number.

#### EMERGENCY SPILL CONTROL PROCEDURES

IN THE EVENT OF A SPILL IMMEDIATELY NOTIFY THE EMERGENCY COORDINATOR OR ALTERNATE, COORDINATOR AS LISTED ON THE ATTACHED SHEET:

While the notification is proceeding, the following steps for handling a spill should be put into effect.

- The Spill Cart Room is located in the Firehouse.
- Hook up the Spill Cart to the firetruck.
- Haul Spill Cart to the spill area.

A care

- 4. Use all necessary protective clothing provided on the Spill Cart. (Rubber boots, gloves, masks, etc.) The level of protection necessary can determine using the HMIS code for the spilled material. Refer to MSDS for more specific information.
- 5. Contain the spill by damming with absorbant material. (Be sure to prevent spill from getting into sewer drains.)
- 6. If spill is flammable use fire extinguishers to spread foam over the spill.
- 7. Clean-up spill. Put material into drums. Clean equipment used and return to the proper area on the Spill Cart. Contaminated cleaning liquid used to clean equipment, should also be put into drums. Close and seal drums immediately.
- 8. Mark drums according to the type of spill. (Latex, Corrosive, Flammable Liquid)
- 9. Move drums to the hazardous waste area. Be certain that labels reading, "HAZARDOUS WASTE" are completed and immediately attached to each drum.
- 10. Return Spill Cart to Firehouse. Restock with necessary material or protective equipment, etc.

#### PRIMARY COORDINATOR

Mike Burdine
130 Acacia Court
San Carlos, CA 94070
Home - Nights (415) 591-4399 - Speed Dial - Ext. 648
Work - Days Ext. 367
Beeper Number 14

#### ALTERNATE COORDINATORS

Larry Sayre
10865 West Estates Drive
Cupertino, CA 95014
Home - Nights (408) 725-8909 - Speed Dial - Ext. 659
Work - Days Ext. 394
Beeper Number 24

Rod Salvi
106 N. Quebec
San Mateo, CA 94401

Home - Nights

Beeper Number

Work - Days

Beeper Number 43

Gus Ramon
213 Mark Twain Court

Santa Clara, CA 95050

Home - Nights (408) 243-0729 - Speed Dial - Ext. 657

Work - Days Ext. 376

Ext. 384

(415) 344-8715 - Speed Dial - Ext. 658

Don Mazzone
460 Ondina Drive
Fremont, CA 94539
Home - Nights (415) 490-0448 - Speed Dial - Ext. 650
Work - Days Ext. 209

#### JOB DESCRIPTION AND PROCEDURES FOR HANDLING HAZARDOUS WASTE SLUDGE FRUM DEWATERING TANK

Fork Lift Driver:

Li Mar.

Brings necessary number of D.O.T. 17H open head drums to dewatering tank area.

Fork Lift Driver

and Janitor A:

Place a polyethylene sheet on ground under the entire tank and valve area.

Fort Lift Driver and Janitor A:

Set up pump and hoses to dewatering tank valve. All equipment must be on polyethylene sheet. Turn on air, open valves and turn on pump.

Janitor A:

Pumps sludge into drums. Drums must be on polyethylene sheet to prevent spills from reaching the soil.

Fork Lift Driver:

Immediately puts covers on drums and bolts ring closed.

Assistant to

Plant Engineer:

Types up hazardous waste labels and prepares manifests per attached instructions.

Fork Lift Driver:

Moves pallets, 4 drums per pallet to hazardous waste storage area.

Janitor A:

Applies hazardous waste labels immediately.

This process is repeated until all sludge that can be pumped out has been put into drums. Then the following procedures are followed:

Mechanic:

Opens dewatering tank hatch cover.

Fork Lift Driver

and Janitor A:

Shovel remaining sludge into drums. Immediately puts covers on drums and bolts ring closed.

Fork Lift Driver:

Moves pallets, 4 drums per pallet to hazardous waste storage

area.

Janitor A:

Applies hazardous waste labels immediately.

Janitor A:

Paint side and lid of drum where stencil will be placed.

Fork Lift Driver:

Make stencil of hazardous waste code and manifest number.

Fork Lift Driver:

Stencils top and side of drum with hazardous waste code and manifest number.

Horking Foreman:

Responsible to insure that all procedures above are followed Will maintain an accurate inventory log of all empty and full drums so as to be able to determine at any time the quantity of each type of waste on hand, and when it entered Waste will not be allowed to remain in the storage area. storage more than 90 days. A "First In First Out" procedure

# INTEROFFICE MEMORANDUM



**FILE**▶

	M. Burdine - 11 R. Salvi - 05 L. Sayre - 08 R. Thimsen - 02	N. Corea - 11 M. Lara - 11 R. Gomez - 11 J. Sanna - 11
FROM:	G. Ramon - 05  D. Mazzone - 09  SSF	D. Benvenuti - 11

SUBJECT:

DATE:

#### HAZARDOUS WASTE PROCEDURES

May 20, 1986

Enclosed are some revised procedures for Hazardous Waste. The include:

DISTRIBUTION:

cc: P. Kuehne - 11

- 1. Uniform Hazardous Waste Manifest Procedures
- 2. Job Descriptions
- 3. Emergency Spill Coordinators Listing
- 4. Emergency Spill Control Procedures
- 5. The O'Brien Corp. Spill Control Plan

Please read these thoroughly and plan to attend a meeting at 2:45 PM in the Factory Conference Room on Friday, 5/23/86 to review these procedures.

Don L. Mazzone

DLM/mar

**Enclosures** 

#### HAZARDOUS WASTE TRAINING CLASS OUTLINE

1:	••	THE	LAWS	GOVERNING	<b>HAZARDOUS</b>	WASTE
		111-		00171/117110	ロハたハバリン	バハン・ト

- (A) RESOURCE CONSERVATION AND RECOVERY ACT (RCRA)
- (B) SUPERFUND (CERLA)
- (C) CALIFORNIA ADMINISTRATIVE CODE, TITLE 22

#### AGENCIES OVERSEEING HAZARDOUS WASTE

- (A) EPA
- (B) CALIFORNIA DEPT. OF HEALTH SERVICES
- (C) SAN MATEO COUNTY DEPT. OF HEALTH SERVICES
- (D) REGIONAL WATER QUALITY CONTROL BOARD

#### GENERATOR vs. TSD FACILITY

- (A) DEFINITIONS
- (B) REQUIREMENTS FOR GENERATOR

- (C) ADVANTAGES IN BEING GENERATOR vs. TSD FACILITY
- (D) INSURANCE CONCERNS

### 4. HAZARDOUS WASTE HANDLING ON-SITE

- (A) HON TO DETERMINE IF ITS HAZARDOUS
- (B) HANDLING PRECAUTIONS
- (C) PERSONAL PROTECTION
- (D) DECONTAMINATION
- (E) REQUIREMENTS FOR LABELING
- (F) PROPER STORAGE
- (G) MANIFESTING

#### 5. DISPOSING OF THE WASTE

- (A) WASTE MINIMIZATION
- (B) RECYCLING ADVANTAGES
- (C) WASTE DESTRUCTION
- (D) DISPOSAL SITES
- (F) HOW O'BRIEN HANDLES WASTE DISPOSAL

### HAZARDDUS WASTE TRAINING CLASS

This is to certify that I have received training on the subject of Hazardous Waste at the Fuller O'Brien Facility in South San Francisco.

That Jonan D)	53-MAY-BC
O O NAME	
John Samuel NAME	23-MAY 86
Horna Corec V	May 23, 1986
1) NAME V	
(Tafael ) anns	Mag. 93, 1986
m. be Rupling	5-23-86 DATE
NAME NAME	· · · · · · · · · · · · · · · · · · ·
-Row Zhimi	5-23-80 DATE
Merical Col	5/23/86
NAME OF O	DATE
NAME O	3/23/86
Jan Sagre	5/93/86
NAME J	DATE
NAME	DATE
NAME	DATE
NAME	DATE

On October 10, 1985 I attended a meeting of the Fuller O'Brien volunteer fire brigade. The topic of discussion was sprinkler systems and their location. 10. 11. 12. 13. 14. 15. 16.

17.

18.

19.

20.

#### SPILL CONTROL CART

#### INSTRUCTIONS

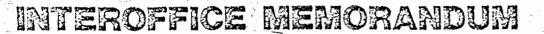
- 1. Key #2579 opens Spill Control Cart room. It is on the Foreman's key ring. Another key is located in the Foreman's desk.
- 2. Spill Control Cart is located behind Building #96.
- 3. Hook up Spill Control Cart to large lift truck. (The lift truck Ralph uses.)
- 4. Haul Spill Control Cart to spill area.
- 5. Wear protective clothing provided on Spill Control Cart. (Rubber boots, gloves, masks, etc.)
- 6. Contain spill by damming with absorbant material. Be sure to prevent spill from getting into sewer drains.
- 7. If spill is flammable use fire extinguishers and spread foam over spill.
- 8. Clean-up spill. Put material into drums. Seal and lock-up drums.
- 9. Mark drums according to type of spill. (Latex, Oil, or Corrosive)
- 10. Take drums to hazardous waste area.
- 11. Clean equipment used and return to proper area on Spill Control Cart.
- 12. Return Spill Control Cart to room. Re-stock with necessary material or protective equipment, etc.
- 13. Lock Spill Control room.
- 14. Notify MANAGEMENT of the occurance and location of spill.

# SPILL CONTROL

This is to certify that I have been given instructions in the use of the SPILL CONTROL CART.

I have also recieved a set of instructions in the use of the SPILL CONTROL CART and how to clean up a spill.

Im Danna.	10-10-85
NAME	DATE
NAME	10-10-85 DATE
····	
does Lovas	10-10-850
NAME	DATE
Marin Marin	16 1/2- 515
NAME THAT YELL	10-10-85, DATE
$\sim 1000$	
Crafael Tomes	10-10-85
NAME	DATE
The same of the	10-10-85
- Yormal Care	DATE
in thomas	
1100	10 . 15 - 83:
NAME	DATE



Q Gamasi



FILE

11. 010/116/2	
TO: ALL FACTORY AND OFFICE EMPLOYEES	DISTRIBUTION:
ROM: Industrial Relations Department	
люм: South San Francisco	
DATE: January 6, 1982	

FIRE ALARM SYSTEM

SUBJECT:

Recently, we discovered that several of the horns used in the fire alarm system had been stuffed with rags and other objects, which muffled or rendered the apparatus completely inaudible. The system is used to notify employees of breaks and lunch periods, but is also used to signal the existence and location of a fire or other emergency within the plant.

The tampering with these devices could result in your fellow employees not hearing the alarm in the event of a fire, with possibly disastrous consequences. Even though the horn in your area may be annoyingly loud, this is necessary so that other employees in higher noise level areas will be able to hear it.

Because of the risk to human life that tampering with these horns creates, anyone caught tampering with or sabotaging the system will be terminated immediately.

I have read and understand the consequences of this memo.

Signature Ralad Mank Date 1-8-82

RETURN THIS SIGNED MEMO TO THE INDUSTRIAL RELATIONS DEPARTMENT SO THAT IT CAN BE FILED IN YOUR PERSONNEL RECORDS.

The film "You Bet Your Eyes," was viewed by the highlighted employee on 7/11/85 YOU BET YOUR EYES Danet Hussoni Proffeson Tel goe martin S.R. Horael Treens Sal- Wolady 60 A FEN 1 Ban MULLICE Line Windelte E. King this Corner Leane Coleccia Jan Dyn. Co V Norma Cores R.J. Collers for foron and all Some a Ferni Low langeam -Ivan Edwarson Martin F. Organ and Charles Errol -Brian Umasher 1 mil 16th Stock Mory Myna XXXX Faul J. M-Dunk Philip & Stuhn CONTRACTO Mastery May for face Samuel Alexander MAIN. Prans

# NATIONAL SAFETY COUNCIL FORKLIFT TRUCK OPERATORS TRAINING COURSE

#### WRITTEN TEST

AULTIPLE CHOICE (se	a er er ve <u>rt</u> agi kare	•	nost correc	•	•	av )
1. A lift truck to	a er er ve <u>rt</u> agi kare	which is n		and circle	the lett	ar l
	esining program					cr.)
(a) Reduce m	anning program	will help	us:			
(b) Increase (c) Reduce a (d) All of the	•	s				
2. The rear-end		lift trucks	s:			
(b) Is about (c) The rear	e rear end to sy the same as an a end swings less te truck to take	auto. than an aı	ıto.			

- (a) At least 12 inches.
- (b) Between 12 and 18 inches.
- (c) No more than 6 inches.
- (d) High enough so the operator can see under the load.
- 4. Lift trucks should be inspected:
  - (a) Weekly.
  - (b) Daily.
  - (c) At the start and end of the shift.
  - (d) When they start to develop trouble.
- 5. From a safety standpoint, one of the most serious truck defects is:
  - (a) Brake failure.
  - (b) Low fuel or battery charge.
  - (c) Broken horn.
  - (d) Worn tires.
- 6. When following another truck it is best to keep behind:
  - (a) About one truck length.
  - (b) About three truck lengths. -
  - (c) About 10 feet to 12 feet.
  - (d) Close enough so the other operator can hear your horn.
- 7. The truck horn should be used:
  - (a) To warn pedestrians and other traffic at intersections and blind corners.
  - (b) To make workers get out of your path when you get too close to them.
  - (c) To let your supervisor know that you are busy.
  - (d) To let everyone know you have the right of way.
- 8. If you have to leave a truck unattended, even with the power off, you should:
  - (a) Ask someone to tell you if it starts to move.
  - (b) Be in clear view of it and no more than 25 feet away.
  - (c) Be no farther away than in the washroom.
  - (d) Be no farther than 45 feet away if you're helping load stock.

## TRUE OR FALSE (circle T or F, whichever is more correct.)

- T F 1. The maximum allowable load should be shown on the nameplate of the truck.
- T F 2. It is permissible to overload the truck by 25 per cent if additional counterweights are used.

- T F 3. The load should not be handled if it is so unstable or so insecure that it might come loose while being moved.
- T F 4. It is good practice to keep the load back against the truck mast as much as possible.
- T F 5. When going down a 15 per cent incline keep the load on the downside.
- T F 6. Violation of safety rules, near misses and occasional damage to stock probably indicates a high accident and maintenance rate.
- T F 7. Repairs to industrial trucks should be made only by persons trained and authorized to make them.
- T F 8. It is permissible to run over a loose dock plate as long as the truck is not fully loaded:
- T F 9. If you see a loose object in your path it is better to remove it or avoid it than to run over it.
- T F 10. Slippery spots caused by oil and water may increase braking distance or cause loss of steering control.
- T F 11. If you are not able to see because of a large load in front of you, it is better to drive backwards than to try to see around it on one side.
- T F 12. If they ask, maintenance men or repairmen may be lifted on the forks to reach their work.
- T F 13. Under no condition should anyone be permitted under the elevated forks or loads.
- T F 14. When loading a highway truck or trailer, its wheels should be chocked or blocked even though the driver says he set the brakes.
- T F 15. Railroad tracks should be crossed at an angle.
- T F 16. Smoking is permissible in refueling areas providing you see no leaking fuel.
- T F 17. Parked trucks should never block fire equipment, fire doors or exits.
- T F 18. A careful driver may hang his legs outside the truck as long as he is protected by a wide load.
- T F 19. A professional operator checks each load for stability before moving it.
- T F 20. Passing another truck in a narrow aisle is safe if it is going no more than eight miles per hour.
- T F 21. When taking a load up a ramp with greater than a 10 per cent slope, the forks should be on the up side.
- T F. 22. When going through doorways and under pipes, an operator must know clearance of large elevated loads.
- T F 23. A really proficient driver should demonstrate his ability by turning corners as quickly as possible.
- T F 24. It is permissible to let another person operate your truck if he says he knows how.
- T F 25. When traveling with a load the mast should be tilted back.

702,80, 80

CLOSURE

CERT. CLEANED TO PRODUCK THIS WELK

SOOD YDS REMOULD 4.5"

Buct 8 MOT SUBORTACE

< GO DAYS FOR URUM

81 pst NW 120 pow05

Stanbud 4,0 Tawy 10 Ports)
will BE Some it BETONE 60116

WAST ANDAYSUS - NAKLOS

LOG OF 570126E?

118PECTION 106

BLDG 31 SOUTHER STREES -TT. DOG.  TONKE CONTENT TOTE WITH INTO A.	14 100 10 10 10 10 10 10 10 10 10 10 10 10	SANDWTR MONITORING MONTHLE MOSTE SUMP HOLDING A LATTLE WOSTE LOWED GET 1MTO SENTE: 17 1200	-CALT SOMPLE OF STONINGS	
54.066 15 Wanthes FC	NO DON FOR TRUMINGS	2105419 PAN WAS CHANGED FOR PR LLUKES 50 PPM -> 200 PPM 50 PPM -> 200 PPM 72 LLUKS SPULLED WILDER TWE 7 ANK - 5177116 TWENT FORE	RALPHS FORKLIFT IS CONTAMINACTED	

 $\label{eq:continuous} (x,y) = \exp\{ (x,y) \in \mathbb{R}^{n} : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x| \leq n : |x$ 

A Second Manual Maries

The second control of the second seco

Muly SUS OF WASH STATIONALLY TOWK BEFORE IT ENTERS THE STUFFE. ANDUSSET MOSTE IN STUISE SOFETY CHECK 1157 FOR NEW COPLOSES CONTINGENCY PLON STUC TO COME FENCE DOWN - NO NO SMOKING 24 NR GOURD ON DUTY ELVERY 4 NDS GOURD MOVES SUMP/DIBIN TO CITY SEVER URUM STOROLL

SAMALYSIS OF DANCE SIDE OF THE S SUMP CON TILL 4/2000 WINES

PICTURES OF KELPINS CHIKU FOREITH

(415)345-7377 FIRE LIVE LATINGUI SALER 1987 AFFF

CARCK ON DRUMS (EMPT) Alle

3000 SU LAKEN 10000 SOL OF SLUDE " 1sto Bores ( slokums)

WASTE ANALYSIS PLAN

# Waste ivianagement, Inc.



y

. Additional page(s) ATTACHED

Ver	23	*****	TE THOMES OFFER THE
		SFO	CXXXXXXXXXX
	4	TSDR	A 93096
$\sim$			11 23022

TO STATE OF THE PROPERTY OF THE	Design to the Company of the Company	THE STATE OF THE S	<b>在中国国际的</b>		
A GENERAL INFOR	MATION .	1600	11	NO AUGUS	•
GENERATOR NAME: L	The O'Brien Corporat	ion		TRANSPORTER: L SO	uth Bay Chemical
FACILITY ADDRESS: U	450 East Grand Avenu	le	·	TRANSPORTER PHONE: L	(408) 848-1470
FACILITY ADDRESS: C	South San Francisco,	Calif. 94			(C,A,D,O,O,5,1,3,0,4,5,5,
· :				GENERATOR STATE I.D.	37
	Michael D. Burdine	P. Titte	E: Mgr of		PHONE: (415) 761-2300
TECHNICAL CONTACT	Waste Water Treatment S		E: (	<del></del>	Ex 367
	G WASTE: Manufacture of v		paints		1
PROCESS GENERATIN	IG WASTE: LITERIAL COURTS OF THE			***********	
B PHYSICAL CHAR.	ACTERISTICS OF WASTE	er de			
COLOR	ODOR NONE MI	D PHYSICAL STA	TE @ 70 F	LAYERS	FREE LIQUIDS
Varys	STRONG	SOLID	X SEMI-SOLID	X BI-LAYERED	XXYES UNO
	DESCRIBE L	Liquid	POWDER	1	VOLUME 1 65-75%
9 ::3 :9				SINGLE PHASED	
	▼ 7:1-10 N/A SPECIFIC SRAVITY		POINT		200°F CLOSED CUP
	10.1 - 12.5		1.7	] 70°F-100°F [X] 1	NO FLASH OPEN CUP
4.1 - 6.9	☐> 12.5 · ☐ 1	-1.2		] 101°F - 139°F	EXACT
□ 7	EXACT L	ACT _1,2		] 140°F - 200°F	
C CHEMICAL COM	POSITION (TOTALS MUST ADD TO 100%)		D METALS	TOTAL (PPM) XVE	PA EXTRACTION PROCEDURE (mg/L)
Pigment (	TIO-2, Silicates)	15%	ARSENIC (As)	0.05-2/1	SELENIUM (Se)
Water		69	BARIUM (Ba)	£1.0-130,	SILVER (Ag) 0.2
Latex Res	sin	12	CADMIUM (Cd)	<u>₹-1.2</u>	COPPER (Cu) 15,0-5.5
Aluminum	Sulfate	4 1%	CHROMIUM (Cr)		NICKEL (NI) 1/7-5.1
. /	Section 1	, ,		15.0	ZINC (Zn) 99-240.0
*	and the second of the second o		LEAD (Pb)	12.5	THALLIUM(TI) 2/0-4.5
L			` :	200	THALLIUM(TI) 15777 4.2
ranto di c			CHROMIUM-HEX		
1			CYANIDES OLL	PONENTS - TOTAL (PPM)	• • • • • • • • • • • • • • • • • • •
L		%		-21-0 710-T	Mone None
201 7 HAVE 18 18 18 18 18 18 18 18 18 18 18 18 18	D. A. C.		SULFIDES L	Part Control of the C	PHENOLICS
F SHIPPING INFOR		Ì		CHARACTERISTICS	
D.O.T. HAZARDOUS N		drev.	REACTIVITY: [X		
l .	Hazardous Waste, Liq	k.1	EXPLOSIVE	L] WATER	REACTIVE OTHER
HAZARD CLASS LITC	PRIPARE LE TRE LE	L R.O. L_NA	OTHER HAZARDO	DUS CHARACTERISTICS:	
METHOD OF SHIPME	ENT: KXBULK LIQUID	BULK SOLID	XXONE	RADIO	ACTIVE ETIOLOGICAL
1	DRUM (TYPE/SIZE) L 55 GM	<u> </u>	PESTICIDE I	MANUFACTURING WASTE	OTHER L
ANTICIPATED VOLUM	AE: 18,000 GALS.	L CUBIC YARDS	USEPA HAZARDO	OUS WASTE?	ES C NO
	L OTHER L		USEPA HAZA	RDOUS CODE(S)	
PEH	ONE TIME WEEK	□ монтн	STATE HAZARDO	nn.	ES NO
7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	OUARTER XXYEAR		STATE CODE	:	110
THE REPORT OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAM			<b>X</b>		
H SPECIAL HANDL					
i We	edr Gloves and Goggles				



# Waste Management, Inc. RECERTIFICATION OF GENERATOR'S WASTE MATERIAL PROFILE SHEET



RECERTIFIED WASTE PROFILE SHEET CODE

	ļ	
SFO	۸93096	 <u>.</u>

INSTRUCTIONS: A COPY OF THE COMPLETE GENERATOR'S WASTE MATERIAL PROFILE SHEET WHICH IS BEING RECERTIFIED MUST BE ATTACHED TO THIS RECERTIFICATION FORM ORDINARILY THE LAST COMPLETE PROFILE SHEET VILL BE ATTACHED TO YOUR CONTRACT. IF YOU HAVE ANY DIFFICULTY LOCATING THE LAST COMPLETE PROFILE SHEET, CONTACT THE PERSON SHOWN BELOW, IN ADDITION WE ASK YOU TO COMPLETE THE REMAINDER OF THIS FORM AND TO HAVE IT SIGNED BY AN AUTHORIZED EMPLOYEE. ANSWERS MUST BE MADE TO ALL QUESTIONS AND MUST BE COMPLETED IN INK. INFORMATION SUPPLIED WILL BE MAINTAINED IN STRICT CONFIDENCE CONSISTENT WITH LEGAL REQUIREMENTS. RETURN THIS FORM AND ATTACHMENTS TO: L. CHEMICAL WASTE MANAGEMENT, INC. KETTLEMAN HILLS DISPOSAL FACILITY P. O. BOX 471, 35251 OLD SKYLINE ROAD KETTLEMAN CITY, CA 93239 A GENERAL INFORMATION TRANSPORTER: South Bay Chemical GENERATOR NAME: The O'Brien Corporation \_\_\_\_\_\_ TRANSPORTER PHONE: \_\_\_\_\_\_ (ДОВ) 848-1470 FACILITY ADDRESS: 450 East Grand Avenue South San Francisco, Calif. 94080 I GENERATOR USEPAID C: A D 0,0,5,1,3,0,4,5,5 \_\_\_\_\_ I GENERATOR STATE LD \_\_\_\_\_ None TECHNICAL CONTACT: 1 Michael D. Burdine Juile: 1 Mgr of Engr 1 PHONE: (415) 761-2300 Ex 367 NAME OF WASTE: Waste Water Treatment Sludge Manufacture of water based paints PROCESS GENERATING WASTE L B CHANGES OR ADDITIONS SINCE LAST PROFILE SHEET PREPARATION OR RECERTIFICATION 1. HAVE YOU OBTAINED ANY LABORATORY ANALYSIS OF THIS WASTE? XX YES ONO (IF YES, PLEASE ATTACH COPIES) 2. HAVE YOU CHANGED THE RAW MATERIALS USED IN THE WASTE GENERATING PROCESS? Types XX NO 3. HAVE YOU CHANGED THE WASTE-GENERATING PROCESS ITSELF? TYPES TO YES 4 ARE YOU AWARE OF ANY FACTS OF CIRCUMSTANCES WHICH HAVE, OR REASONABLY COULD HAVE, ALTERED THE PHYSICAL OR HAZARDOUS CHARACTERISTICS, OR CHEMICAL COMPOSITION OF THE WASTE? TYES TO 5. ARE YOU AWARE OF ANY HUMAN HEALTH EFFECTS OF EXPOSURE TO THE WASTE NOT PREVIOUSLY DESCRIBED? 

Yes XXVIII 6. IF YOU ANSWERED "YES" TO QUESTIONS 2, 3, 4 OR 5, PLEASE PROVIDE DETAILS BELOW: C SPECIFIC CONSTITUENTS DOES THIS WASTE CONTAIN POLYCHLORINATED BIPHENYLS? TYPES XX NO. DOES THIS WASTE CONTAIN 2, 3, 7, 8 - TCDD? TYES WAND D. SHIPPING INFORMATION METHOD OF SHIPMENT: TABULK LIQUID DEBULK SOLID DRUM (TYPE/SIZE) 55 (2011) ANTICIPATED VOLUME L\_\_\_18,000 \_\_\_\_\_\_ GALS L PER ONE TIME WEEK MONTH DOUARTER WEEK DE

RECERTIFICATION, I AM AN EMPLOYEE OF THE GENERATOR AUTHORIZED TO SIGN THIS CERTIFICATION. THE INFORMATION PROVIDED IN THE RECERTIFIED WASJE PROFILE SHEET

ATTACHED HERETO, AND THE INFORMATION SUPPLIED ABOVE, ARE COMPLETE, TRUE AND CORRECT.

# INTEROFFICE MEMORANDUM



FILE

10. All Factory and Department Managers

DISTRIBUTION:

FROM: N. Corea - 11

ATION SSF

DATE: October 29, 1985

When transferring discontinued material or hazardous waste to be disposed of these procedures should be followed.

- 1. Form S-17 must be filled out for each type of waste. Do not list more than one waste category per S-17.
- 2. On S-17 form transfer to DRUM PLANT, cost center 64887 account number 7203.
- 3. Material Safety Data Sheet or formula should accompany S-17 for discontinued material.
- 4. Drums containing 20 percent or more solvent may need to be distilled.
- 5. -- Drums must be D.O.T. approved.
- 6. Drum must be full. Drums with more than two inches of void will not be accepted.
- 7. Drum 1id must have 2 inch bung located at outer edge of lid.
- 8. Lid must be gasketed.
- 9. Quick locks will be accepted.
- 10. No mixing of waste types on a pallet will be accepted.
- 11. Outside of drums and drum lids must be free from all spilled material.
- 12. Each drum must be stenciled with 3/4 inch letters to one of the following codes:

SFO - A93096 Latex Base Sludge

SFO - A93097

Oil Base Sludge

SFO - A93098

Filter Media
Liquid Filter Media(If drum contains more than

1 inch of liquid.)

SFO - A93099

Lead Bags or Dry Pigment

# **EMPLOYEE HMIS QUIZ**

This HMIS Quiz will be placed in your permanent employment file as a record of your training in the Hazardous Materials Identification System.

Identification System.	DATE_	1-21-86
NAME: LORUA COREA  DEPARTMENT: JANITORIAL  JOB TITLE: LOREMAN  SUPERVISOR M. BURDING		
Please answer all of the initials "HMIS" mean? HAZARDOUS	•	ENTIFICATION SYSTE
2. Name the 3 types of hazards rated by the HMIS.  A. HEALTH B. FLAMM	RE RE	ACTIVITY
3. What do the letters in the "Personal Protection" section  PROTECTIVE EQUIPMENT  4. What should you do if you see the letter "X" in the Personal Protection section.	of the HMIS label represer	nt?
ASK SUPERVISIOR  5 Which type of hazard is represented by each of the 3 cr	plors listed below?	

6. What should be carried with you in the plant at all times?  $\overline{PPE}$ 7. Write the correct rating number next to each hazard shown below: \_\_\_Serious Hazard \_\_\_\_\_ Severe Hazard

\_\_\_\_ Moderate Hazard \_

8. Explain the difference between a chronic health hazard and an acute health hazard.

RED FLAMMABILITY Blue HEALTH

extended Period of exposure

WALLET CARD

# EMPLOYEE HMIS QUIZ (continued)

9.	Other than checking a wallet card or asking a supervisor, what other way can be used to check the meaning of a rating or personal protection code?  WSDS (MATERIAL SAFTY DATA SHOOT)
0.	List the toxic substances you use in your work:
	WASTE SLUDGE
	CAUSTIC
	GOLVENTS
1.	Were all these substances covered in the training program?XYesNo
	If NO, list substance(s) not covered.
2.	Did the program explain the protective clothing/equipment need to work with the toxic substances you use?  Yes No. If NO, which substances were omitted?
13.	Do you have and use required protective clothing/equipment? Yes No
	If NO, explain
14.	Did the training program answer all your questions about the proper use and handling of toxic substances?  Yes No. If NO, explain

In addition to training on my rights under the OSHA Standard, and State Right to Know laws, I have  $\dots$ 

- · been instructed in how to read MSDSs and labels . . .
- been told where MSDSs are kept and I have access to them ...
- been told of necessary precautions to take when handling dangerous substances in my work area . . .
- · been told where medical supplies and other safety supplies are kept.

Employee's Signature Date

# EMPLOYEE HMIS QUIZ

This HMIS Quiz will be placed in your permanent employment file as a record of your training in the Hazardous Materials Identification System.

DATE 1-27-86

N	ME: Bafael GOMEZ CLOCK NO.
DE	PARTMENT: SHOP SOC. SEC. NO. 551-906486
JC	B TITLE: DYID FOYKLIFT
sı	JPERVISOR MIKE
	Please answer all questions fully!
1.	What do the initials "HMIS" mean? Hazardous MATEYIBIS
2.	Name the 3 types of hazards rated by the HMIS.  A. HEALTH B. FLAMMABITY C. RESCTIVITY
3.	What do the letters in the "Personal Protection" section of the HMIS label represent?
4.	What should you do if you see the letter "X" in the Personal Protection section?
5.	Which type of hazard is represented by each of the 3 colors listed below?
	Red FLAMMAbe Blue Health Yellow Beaching
6.	What should be carried with you in the plant at all times? INDENTERMENTS
	Write the correct rating number next to each hazard shown below:
	Slight Hazard Severe Hazard Serious Hazard
	Minimal Hazard Moderate Hazard
8.	Explain the difference between a chronic health hazard and an acute health hazard.

9.	rating or personal protection code?
10.	List the toxic substances you use in your work:
11.	Were all these substances covered in the training program?
	If NO, list substance(s) not covered.
12.	Did the program explain the protective clothing/equipment need to work with the toxic substances you use?
13.	Do you have and use required protective clothing/equipment?XYes No  If NO, explain
14.	Did the training program answer all your questions about the proper use and handling of toxic substances?  ———————————————————————————————————

In addition to training on my rights under the OSHA Standard, and State Right to Know laws, I have  $\dots$ 

- · been instructed in how to read MSDSs and labels . . .
- been told where MSDSs are kept and I have access to them . . .
- been told of necessary precautions to take when handling dangerous substances in my work area . . .
- · been told where medical supplies and other safety supplies are kept.

Bafael 19mg 1-27.86

Table 2. SUMMARY OF GROUNDWATER QUALITY ANALYSESa

		Temperature	- <del> </del>	<i>i</i> 11	Specific	Total	
Well	Date	Field	pН	pН	Conductance	Organic	Lead
Number	Sampled	(°C)	Field	Lab	Field (umhos/cm)	_	(mg/1)
Number	Bampred			1342	rate (cimios)	70	7
W-1	5/3/83 <sup>b</sup>	17.0	7.9	c	2780	c	<0.001
	7/25/84	19.0	6.8	6.8	d	103	0.031
	10/26/84	19.0	6.9	6.7	3918	92	1.5
	12/12/84	17.0	6.7	6.8	2712	17	0.038
	1/18/85	15.0	6.9	6.6	3200	110	0.23
	2/14/85	16.0	6.4	6.6	2994	98	0.15
	3/13/85	15.0	7.0	6.0	2733	109	1.7
	4/11/85	16.0	7.0	6.7	2677	40	0.044
	5/24/85	17.0	6.6	6.7	2812	120	0.084
W-2	5/3/83 <sup>e</sup>	16.0	7.9	c	4180	_ <b>c</b>	<0.001
	1/27/84	c	c	c	C	c	0.041
	7/25/84	17.5	6.9	7.4	d	117	0.010
	10/26/84	17.5	7.0	6.9	5538	68	<0.1
	12/12/84	16.5	6.9	6.8	5117	58	0.006
	1/18/85	15.5	7.2	6.7	5639	130	0.005
	2/14/85	16.0	6.5	6.8	5290	120	0.013
	3/13/85	16.0	7.1	6.1	4903	213	0.031
	4/11/85	16.0	6.7	6.9	3355	100	0.025
	5/24/85	16.0	6.2	6.8	3961	75	0.031
W-3	5/3/83 <sup>b</sup>	<b>c</b>	c	c	c	c	c
	7/25/84	17.5	7.5	7.6	d	102	1.9
	10/26/84	17.0	7.6	7.5	3112	24	1.1
	12/12/84	15.5	7.4	7.4	3161	68	0.30
	1/18/85	15.0	7.9	7.4	2967	67	0.18
	2/14/85	15.0	7.2	7.5	2933	62	0.44
	<b>3/13/8</b> 5	14.5	7.4	6.7	2983	56	1.1
	4/11/85	16.0	7.1	7.3	2129	35	1.1
	5/24/85	17.0	7.4	7.4	2469	<b>7</b> 5	0.74
W-5	5/3/83 <sup>b</sup>	17.0	8.3	c	15,400	_ c	<0.001
	7/25/84	17.0	7.4	7.4	d	16	0.047
	10/26/84	16.5	7.4	7.4	12,711	5	<0.1
	12/12/84		7.1	7.1	12,700	6	<0.001
	1/18/85	16.5	7.5	7.1	11,429	20	<0.001
	2/14/85	17.5	6.9	7.1	11,846	25	<0.001
	3/13/85	17.0	7.3	6.3	12,750	13	0.006
	4/11/85	19.0	7.1	7.1	8294	<b>&lt;</b> 5	<0.001
	5/24/85	17.0	7.1	7.0	10,875	<5	0.008

<sup>&</sup>lt;sup>8</sup> All data collected by the Water Quality Monitoring Program unless otherwise noted.

8067

Table 1. SUMMARY OF WELL CONSTRUCTION DATA

Well Number	Date Installed	Depth of Boring (feet)	Depth of Well Casing (feet)	Screened Interval (feet)	Casing Diameter (inches)	Lithology of Screened Interval	Surveyed Elevation (feet) Top of Well Casing
W-1	10/15/82 (EPS)	20	20	10-20	2	Sandy gravelly clay and sandy clay	8.68
W-2	10/15/82 (EPS)	20	20	10- 20	2	Sandy clay and weathered cemented sandstone	8.61
W-3	10/15/82 (EPS)	20	20	10- 20	2	Sandy clay and weathered cemented sandstone	9.22
<b>W</b> -5	4/28/83 (WCC)	63	58	48-58	2	Orange-brown sandstone	10.35

EPS - Ecology Protection Systems

WCC - Woodward-Clyde Consultants

ではない。他のは、我们は、大阪を大学の教育の教育を表現していません。他のでは、他の人が教育を表現しているとなっていません。

# Table 2. SUMMARY OF GROUNDWATER QUALITY ANALYSES (concluded)

b From Soil and Groundwater Quality Assessment, Woodward-Clyde Consultants, August 1983.

c Not measured.

 $<sup>^{</sup>m d}$  Specific conductance values for 7/25/84 were not measured due to instrument failure.

e From Soil and Groundwater Quality Assessment, Addendum No. 2, Woodward-Clyde Consultants, April 1984.

Table 3. WATER SURFACE ELEVATIONS IN WELLS

Well	Date	Depth to Water	Measuring Point Elevation	Water Surface Elevation
Number	Measured	(feet)	(feet-MSL)	(feet-MSL)
W-1	7/25/84	5.00	8.67	3.68
	10/26/84	4.64	8.68	4.04
	12/12/84	4.19	8.68	4.49
	1/18/85	4.27	8.68	4.41
	2/14/85	4.38	8.68	4.30
	3/13/85	4.16	8.68	4.52
	4/11/85	4.26	8.68	4.42
	5/24/85	4.55	8.68	4.13
W-2	7/25/84	5.67	8.61	2.94
	10/26/84	5.10	8.61	<b>3.</b> 51
	12/12/84	4.72	8.61	3.89
	1/18/85	4.85	8.61	3.76
	2/14/85	4.99	8.61	3.62
	3/13/85	4.88	8.61	3.73
	4/11/85	5.12	8.61	3.49
	5/24/85	5.51	8.61	3.10
W-3	7/25/84	6.04	9.22	3.18
	10/26/84	5.31	9.22	3.91
	12/12/85	4.62	9.22	4.60
	1/18/85	5.02	9.22	4.20
	2/14/85	5.08	9.22	4.14
	3/13/85	4.97	9.22	4.25
	4/11/85	5.13	9.22	4.09
	5/24/85	5.75	9.22	3.47
<b>W</b> -5	7/25/84	6.46	10.35	3.89
	10/26/84	5.58	10.35	4.77
	12/12/84	5.55	10.35	4.77
	1/18/85	5.51	10.35	4.84
	2/14/85	5.73	10.35	4.62
	3/13/85	6.10	10.35	4.25
	4/11/85	6.20	10.35	4.15
	5/24/85	6.24	10.35	4.11

当然の関係では、自然の対象に対象を対象を対象とは、対象の対象を表現を表現を表現して、またが、自然の対象を対象を表現とは、対象の対象を対象を対象を対象を対象を対象という。

Table 4. SUMMARY OF EVALUATIONS OF STATISTICALLY SIGNIFICANT GROUNDWATER QUALITY DEGRADATION<sup>a</sup>

		W-1	W-2 <sup>b</sup>	<b>W</b> −3	₩5
 W-1	TOC	Nonec	Noned		
<b>H</b> -7	pН	None <sup>c</sup>	Noned		
	Specific	Nonec			
	Conductance		Noned		
	Lead	None <sup>C</sup>	$None^{\mathbf{d}}$		
W2	TOC		None <sup>C</sup>		
	рН		None <sup>C</sup>		
	Specific				
	Conductance		None <sup>c</sup>		
	Lead		None <sup>C</sup>		
W-3	TOC		Noned	None <sup>c</sup>	
	рĦ		${ t None}{ t d}$	Nonec	
	Specific				
	Conductance		Noned	None <sup>C</sup>	
	Lead		<b>D</b> egradation <sup>d</sup>	None <sup>c</sup>	
W-5	TOC		Noned		Nonec
	pН		$\mathtt{None^d}$		None <sup>C</sup>
	Specific				
	Conductance		None <sup>d</sup> , e		None <sup>C</sup>
	Lead		${\tt None^d}$		Nonec

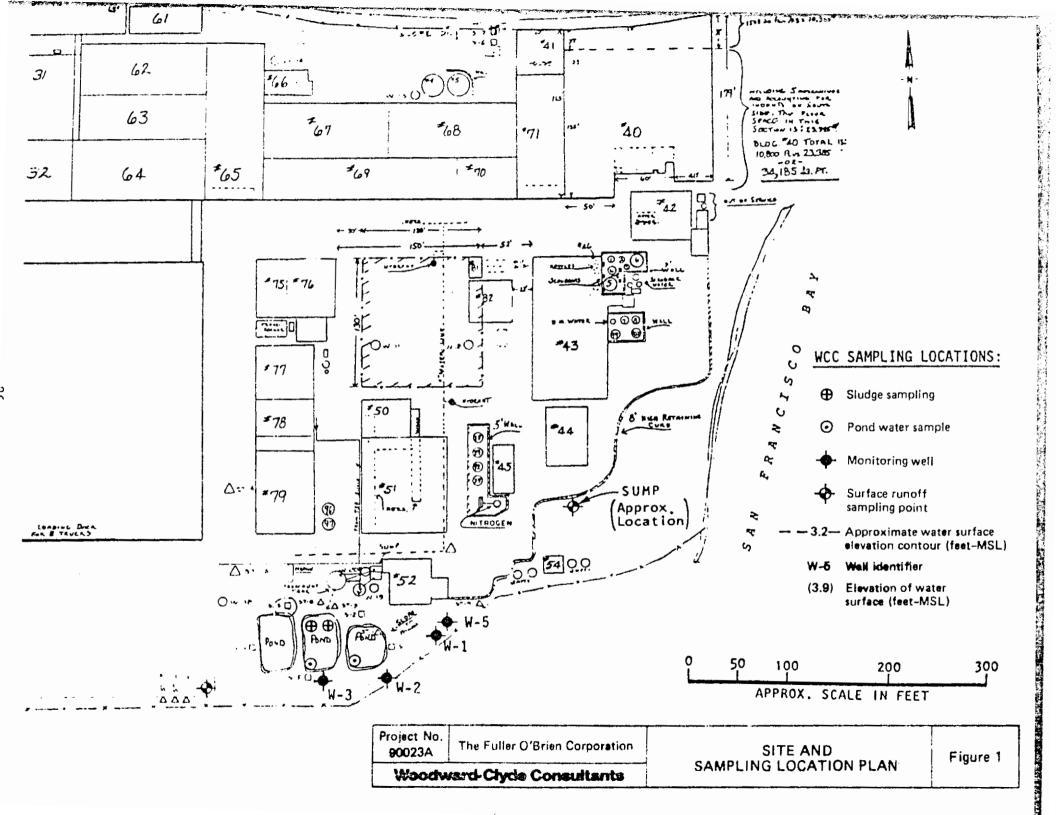
a All evaluations performed at the 0.01 level of significance.

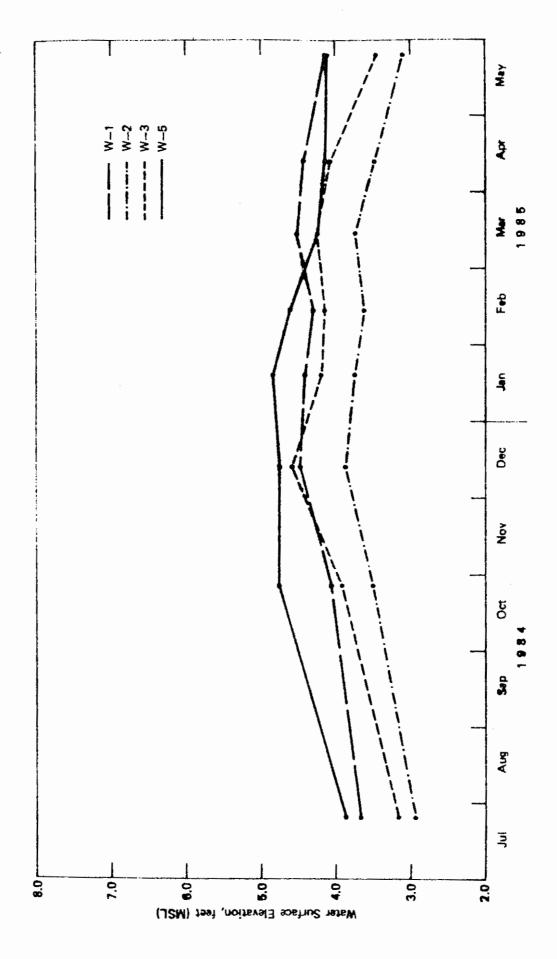
b Background-water-quality well, refer to Appendix 2.

c With respect to time.

 $<sup>^{\</sup>rm d}$  With respect to background (well W-2).

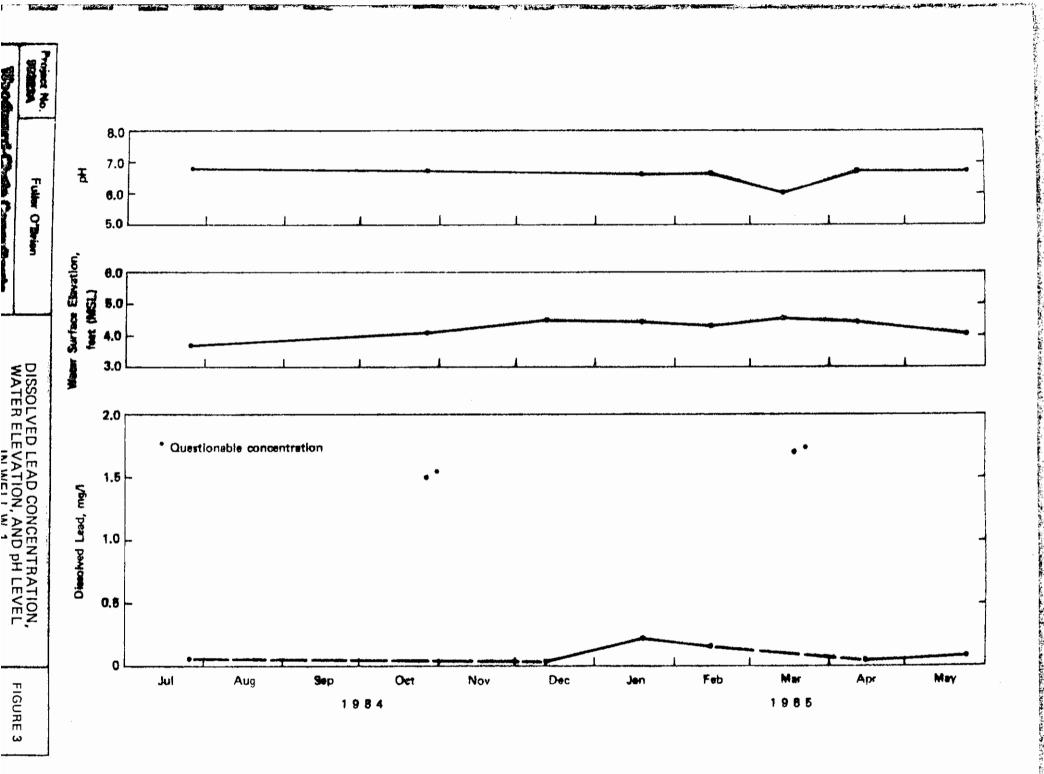
e Specific conductance is statistically significantly greater in W-5 than in W-2.

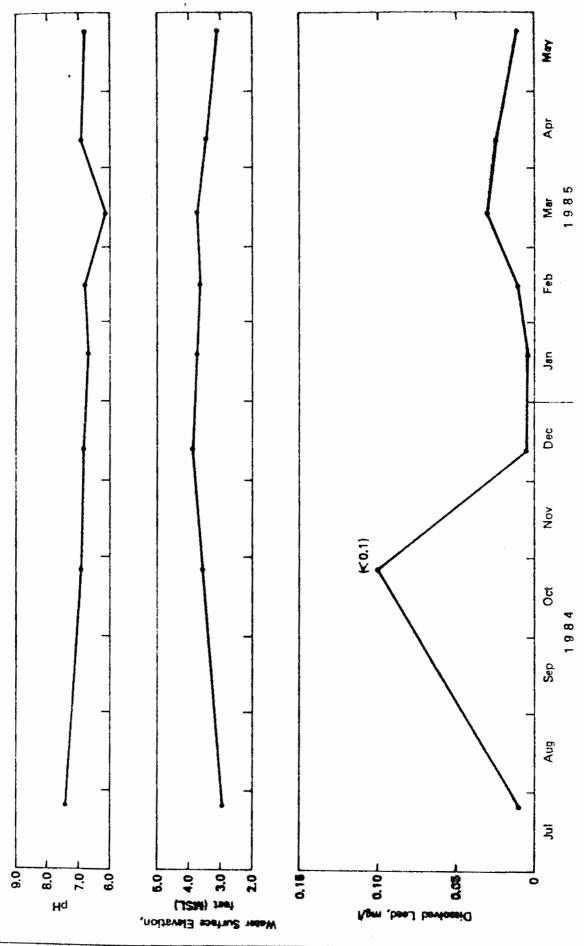




Project No. S0023A Fuller O'Brien HYDROGRAPHS OF GROUNDWATER ELEVATIONS IN MONITORING WELLS
FIGURE 2

13



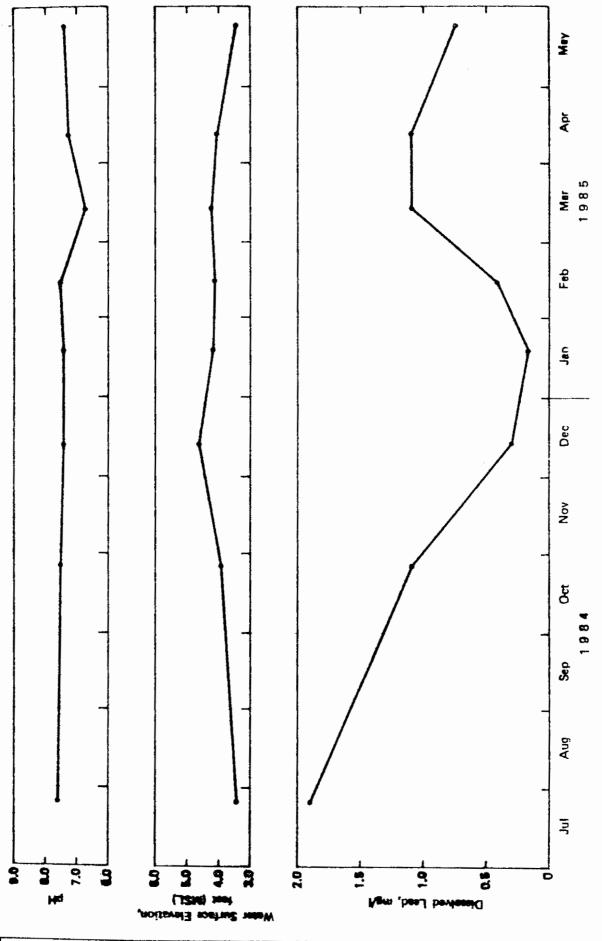


Project No. Substance Fuller O'Brien

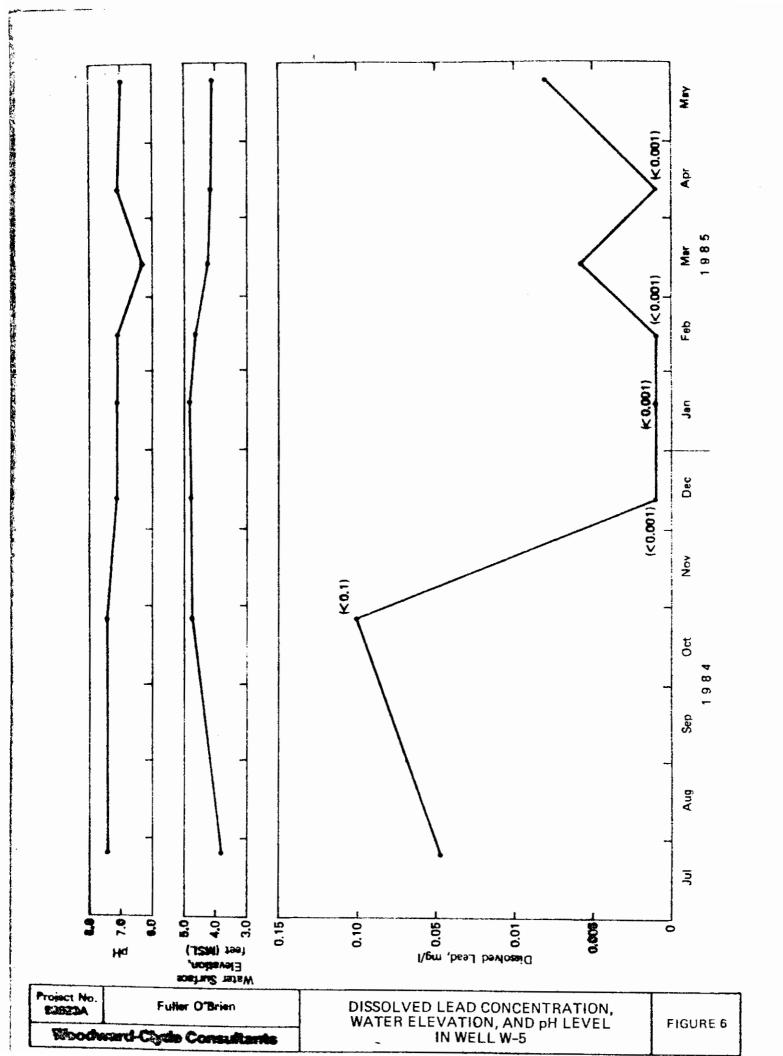
是一个时间,这种是一种,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们也没有一个时间,我们也没有一个时间,我们就是一个时间,我们就 第一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们

DISSOLVED LEAD CONCENTRATION, WATER ELEVATION, AND pH LEVEL IN WELL W-2

FIGURE 4



Project No. SUBSA Fuller O'Brien DISSOLVED LEAD CONCENTRATION, WATER ELEVATION, AND pH LEVEL IN WELL W-3



) a	se print or type. (Form designed for use on elite (12-pitch) typewriter.)				1 1			
1	UNIFORM HAZARDOUS 1. Generator's USE	•Docu	enifest ment No.	2.Pag of	is not	require	ne shaded areas ed by Federa	s
-	V/ASTE MANIFEST C A D O O 5 3	1304335	172		law. te Manifest Do	cumen	t Number	
	3. Generator's Name and Mailing Address The O'Brien	Corporation		. ',	84119	342	6	1.
	450 East Gre		ስቴስቴስ	B.Sta	te Generator's	ID.	1	
	4. Generator's Phone (118 ) 761 2300 136 346	ncisco, Calif. 9	7					
	5. Transporter 1 Company Name 6.	US EPA-10 Numb	ier" UN	1	te Transporter	•	1306	
	7. Transporter 2 Company Name 8.	THE EDAYO MUST	222		nsporter's Phor te Transporter'		7	5
	7. transporter 2 Company Name 6.	OS EFA ID NUME			nsporter's Pho		17147 040	
	Designated Facility Name and Site Address 10.	US EPA ID Numb	er		te Facility's ID		The Wat Coast	- 2
	IT Corporation (Benicia Disposal)			1,50	网络水花 医视觉器	9 V		11.5
	Lake Herman Road	•		H.Fac	A D O O O	· <del>V O</del>	-1. APV20	
	Benicia, Calif. 94510 C.	C- 6- O- O- O- O- G- A			(115) 22	<b>3</b> _510	νο	
	11. US DOT Description (Including Proper Shipping Name, Haza	rd Class, and ID Number,	12.Conta	ainers Type	Total Quantity	Unit Wt/Vol	I. Waste No.	
3	a. ·			"-	15		·····································	
•	HAZARDOUS WASTE, SOLID, N.O.S. ORM	-E NA 9139	h	L		ļ	611	
ì			h 9 7	D 1	00018	X		
Γ	<b>b.</b>				1			
1						1		
	c.		-					35)
					į	1		
ĺ				<u> </u>				2.13
	d.		٠.					
		•	Ì	١.				
ĺ	J. Additional Descriptions for Materials Listed Above	। ১৯৪৯ চি ক্রেক্টার ক্রেক্টার ক্রিক্টার		K.Ha	nating Codes for	Waste	s Listed Above	
	Dry Sludge and soil from closed solar ev	and the second of the control of the second						
1	D-008 Material: Lead 19,000-50 ppm, Zinc	500-250 pm. B	erium:					
	2,000-100 ppm.							
ĺ	The state of the s			3				
	15. Special Handling Instructions and Additional Information	1						
	Wear Protective Clothing	•		•				
ŀ								
	16. GENERATOR'S CERTIFICATION: I hereby declare that the	contents of this consignm	ent are fu	ily and	accurately descr	ped		
ĺ	above by proper shipping name and are classified, packed, ma transport by highway according to applicable international ar				proper conditio	n for		
-	, transport by highway according to applicable international at	id fiations governmental	regulatiq				Date	
b	Printed/Typed Name	Signature	An	12			Month Day	Year
<u>{</u>	Michael D. Burdine	12/1/1/10		<i>2</i> /2/2	Allen I	,	U Zpale8	·
R	17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature					Month Day	
Ñ 8	Doug Shearer	Signorule	( Lin	m. 19	P		I · I · I	
P	18. Transporter 2 Acknowledgement or Receipt of Materials	S' parameter S	1 /2-4	77.55			O Z <sub>Date</sub>	>
R	Printed/Typed Name	Signature					Month Day	Year
Ħ	· · · · · · · · · · · · · · · · · · ·							
	19. Discrepancy Indication Space							
F	Į.							*******
FACI								<del>(212011)</del>
Ļ		ardous materials covered	by this m	anifes	t except as pot	ed in		
L	20. Facility Owner or Operator: Certification of receipt of haza ltern 19.	ordous materials covered	by this m	nanifes	t except as note	ed in	Date	
1	20. Facility Owner or Operator: Certification of receipt of haza	ordous materials covered	by this m	nanifes	t except as note	ed in	Date Month Day	Year

7/84)

٠١٠	se print or type. (Form designed for use on elite (12-pitch) typewriter.)		-,	A 5		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	à abadad ar	026
Å	UNIFORM HAZARDOUS  1. Generator's US EPA  C. A. D. O. O. 5.1	10 No. Mar 3 .0 .4 .5 .5   3 2	nifest ent No L 7 2	2. Page of	is not law.		e shaded ar d by Fede	
	3. Generator's Name and Mailing Address The O'Brien			A.State	Manifest D			
	450 East Gra			D Ctat	Generator's	942	<b>3</b>	
		cis∞, Calif.	94080	D.Stati	e Generator s	-		
	4. Generator's Phone ( <u>A15</u> ) 761-2300 Ex 367  5. Transponer 1 Company Name  6.	( AUSCEPA ID Numbe	3 - 3	C.Stat	e Transporter	's ID	1302	2.2
	IT Transportation DA	7 8 0 6 7 3 2	22	D.Tran	sporter's Pho	ine .	1 12	
	7. Transporter 2 Company Name 8.	US EPA ID Numbe	r		e Transporter		7742-04	+02
	9. Designated Facility Name and Site Address 10.	US EPA ID Numbe			esporter's Pho e Facility's II			i ing
	II Corporation (Benicia Disposal)	US EFA ID HUIIDO	•		ADOO		001	2
	Lake Herman Road				lity's Phone		Dental de la company	627
	Benicia, Calif. 94510 CAD	00000600			A15) 2	28-510	0	
۱	11. US DOT Description (Including Proper Shipping Name, Hazerd	Class, and ID Number	12.Conta		13. Total	Unit	i. Waste i	<b>4</b> 0
0	8.		No.	Туре	Quantity	Wt∕Vol	1,513	
N		201.00			16		/	
E A	HAZARDOUS WASTE, SOLID N.O.S. ORM-E	NA 9189	01	) T	00	Y	611	1
A T	b.	}						
O								
l	C.				·	-	3.244	
	,	i		1 1				
				<u> </u>				41.000
	d.		•					
				.		1		
	Dry Sludge and soil from closed solar evapo-008 Materials Lead 19,000-50 ppm, Zinc 2,000-100 ppm,	coration ponds,	EPA rium		ndling Codes f			
	15. Special Handling Instructions and Additional Information							
	Wear Protective Clothing							
	16. GENERATOR'S CERTIFICATION: I hereby declare that the cor above by proper shipping name and are classified, packed, marke transport by highway according to applicable international and r	id, and labeled, and <b>are</b> i	n all resp	ects in	proper conditi	on for		
		Signature					Date Month Day	
×	Printed/Typed Name  KICHAEL D. BURDINE	Signature	11)	12	a and in		Month Day	l ·
7		7	4 0			<del>~</del>	O 2 Date	<b>A</b> 5
A	Printed/Typed Name	Signature			1. 1		Month Day	Year
8   F				1 1 m	//	1	0 2 5	<del></del>
H		Signature			·		Month Day	
F	Thirds Types Tierre	, G.,					]	1 .
	19. Discrepancy Indication Space							
	20. Facility Owner or Operator; Certification of receipt of hazardo Item 19.	ous materials covered t	y this m	anifest	except as no	ted in		
	Printed/Typed Name	Signature					Date Month Day	
	Thison Types Haile	Cignatora						, rear

Yellow: GENERATOR RETAINS

Pleas	se print or type. (Form designed for use on elite (12-pitch) typewriter.)			A 0	4 1 1 1 1 1 1 1 1 1 1 1 1	an in th	o shadad	0.00	
A	UNIFORM HAZARDOUS 1. Generator's US EP	.136611	nifest nent No.	2. Pag	is not	require	e shaded d by Fe	dera	ı l
	WASTE MANIFEST C A D O O 5 1		5 11		law.	cument	Numbe	r	
	3. Generator's Name and Mailing Address The O'Brien	Corporation			84113			37	
	450 East Gra	nd Avenue	05030	B.Sta	te Generator's	<del></del>	2-1	= ,	1.197
	4. Generator's Phone ( 135 ) 761-2300 Ex 367	cisco, Calif.						1.0	
	5. Transporter 1 Company Name 6.	US EPA ID Numb	er		te Transporter'		/ <del></del>		
	South Bay Chamical Co., Inc. CA	0000628			nsporter's Phor		00001	1.7	0
Hi	7. Transporter 2 Company Name 8.	US EPA ID Numb	er	ĺ	te Transporter			A 7	
		US EPA ID Numb		<u></u>	nsporter's Pho				
$\  \ $	9. Designated Facility Name and Site Address 10.  South Bay Chemical Co., Inc.	US EPA ID Numi	er	G.Sta	te Facility's ID				
	731 Renz Lane			H.Fac	DO O O 6	28	149	100	1.77
Ш	013 - 0344 05000	D000628	1 4 9	<b>.</b>	rua) era i			3.3	5
$\  \  \ $			12.Cont	iners'	13.40	14.			
'	11. US DOT Description (Including Proper Shipping Name, Hazard	d Class, and ID Number,	No.	Туре	Total Quantity	Unit   Wt/Vol	Wast	e No	
G	8.								
N	WASTE, HAZARDOUS WASTE, FLAMMABLE LIQUID,	N.O.S. UN1993	079	D M	04345	G	461		* ***
R		·		<u>'</u>	0.4.2.4.2		1.1		
A T	<b>b.</b>								4
0						1 1			*
"			<b> </b>	-		-	- 1 1		
	c.								
$\ \cdot\ $	•			.					
	d						. F. +1, jr		1217.3
			1	l			1 2 2	; ; + t	
			<u> </u>	<u> </u>		لبيا			
	J. Additional Descriptions for Materials Listed Above	4 7000		K,Ha	ndling Codes for	vvaste	S LISTED A	rpove	•
	Barium 330, Chromium 2100, Copper 142, L 10, Zinc 1700, all ppm. Solvent 30-45% W	ead 7500, Mercu	ry.	. 17					
	TO DESCRIPTION OF THE PARTY OF	מ טאייני יופטא							
						Hing .			
	15. Special Handling Instructions and Additional Information				<del></del>				
					. '				
		•			`				
	Wear Gloves and Goggles								
Ш	16. GENERATOR'S CERTIFICATION: I hereby declare that the c above by proper shipping name and are classified, packed, mar								
Ш	transport by highway according to applicable international and						· ·-		
	Printed/Typed Name	Signature					Month L	ate	Year
4	Michael D. Burdine	Market	1 /2/	المجزيرين			h o	. ļ	,
╁	17. Transporter 1 Acknowledgement of Receipt of Materials		3 1 1 1 10 10 10 10 10 10 10 10 10 10 10	7300				ate	-
A A N	Printed/Typed Name	Signature					Month L	Эву	Year
S P	The Track	Language of the		1			2	· }	<u> </u>
10	18. Transporter 2 Acknowledgement or Receipt of Materials	· Property of the second						ate	
R	Printed/Typed Name	Signature					Month L	Day	Year
R									
ı	19. Discrepancy Indication Space								
F	•								
A C									
Ļ	20. Facility Owner or Operator: Certification of receipt of hazar	dous materials covered	by this n	nanifes	t except as not	ed in			•
Ÿ	Item 19.			·				Date	
	Printed/Typed Name	Signature					Month L	Day	Year
		1						-	

3	print or type. (Form designed for use on elite (12-pitch) typewriter.)						
3	UNIFORM HAZARDOUS 1. Generator's US EP	Occur	enifest ment No.	2. Pag	is not		the shaded areas ed by Federal
11	WASTE MANIFEST C A D O O 5 1 Generator's Name and Mailing Address The O'Brien	· J · U · 4 · J · 5   1. 0	8.0.0		law.	ocumer	nt Number
1	450 East Gra	corporation			8411		
		ancisco, Calif	94080	B. Sta	te Generator's		
	Generator's Phone ( 415 ) 761-2300 Ex 367	·					
5	Transponer 1 Company Name 6.	US EPA ID Numb		C.Sta	te Transporter	S ID	08001
1	South Bay Chemical Co., Inc. CA. Transporter 2 Company Name 8.	D 0 0 0 6 2 8 US EPA ID Numb	1 4 9 er	E.Sta	te Transporte	's ID	8)848-1470
	1				nsporter's Pho		
9	Designated Facility Name and Site Address 10.	US EPA ID Numb	er	G.Sta	te Facility's I	D .	
	South Bey Chemical Co., Inc. 731 Renz Lane			C	AD 0 0 0	628	149
İ	017 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000628	1 4 9		ility's Phone		
$\vdash$		<del></del>	12 Conta		08) 848-	14/0	<del></del>
1	1. US DOT Description (Including Proper Shipping Name, Hazard	l Class, and ID Number,	No.	Туре	Total Quantity	Unit Wt∕Vo	Waste No.
8							aggina in the
	WASTE, ORM-E HAZARDOUS WASTE, LIQUID, N.O.	D.S. NA 9189	p 79	M	0.4.3.4	C	561
ŀ			<b></b>	-	U 4 J 4	4-	
	•		l		ļ	}	
L			<u> </u>	<u> </u>			A STATE OF THE STA
9	<b>5.</b>			1	j		
				١.		7	
ŀ	1.		<del> </del>	-			
				1			
L	J. Additional Descriptions for Materials Listed Above						es Listed Above
A. W. C. W. C.	inc 92, all ppm. % of Water 81.2%						
	15. Special Handling Instructions and Additional Information	Alternate TS	DF - C	a <b>s</b> ica	lia Resou	rces	
1	7.' 03			TU R	3.		
1	Wear Gloves and Goggles						:
1	Wear Gloves and Goggles		C	asma	lia. Cali	£ 93	3429
		ante of this consigner	C (	a swa 805)	lia, Cali 937-8449		3429
	16. GENERATOR'S CERTIFICATION: I hereby declare that the co above by proper shipping name and are classified, packed, mari	ced, and labeled, and <b>are</b>	ent are full in all resp	805) lyand sects in	lia, Cali 937-8449 accurately desc	ribed	: 3 <b>429</b>
	16. GENERATOR'S CERTIFICATION: I hereby declare that the co	ced, and labeled, and <b>are</b>	ent are full in all resp	805) lyand sects in	lia, Cali 937-8449 accurately desc	ribed	3 <b>429</b>
	16. GENERATOR'S CERTIFICATION: I hereby declare that the composed by proper shipping name and are classified, packed, mark transport by highway according to applicable international and Printed/Typed Name	ced, and labeled, and <b>are</b>	enx are ful in all resp regulation	805) lyand sects in	lie, Cali 937-8449 accurately desc proper conditi	ribed	Date
	16. GENERATOR'S CERTIFICATION: I hereby declare that the considered by proper shipping name and are classified, packed, mark transport by highway according to applicable international and Printed/Typed Name  Michael D. Burdine	ked, and labeled, and are national governmental	enx are ful in all resp regulation	805) lyand sects in	lia, Cali 937-8449 accurately desc	ribed	Date Month Day Yes
	16. GENERATOR'S CERTIFICATION: I hereby declare that the combone by proper shipping name and are classified, packed, mark transport by highway according to applicable international and Printed/Typed Name  Michael D. Burdine  17. Transporter 1 Acknowledgement of Receipt of Materials	sed, and labeled, and are national governmental Signature	enx are ful in all resp regulation	805) lyand sects in	lie, Cali 937-8449 accurately desc proper conditi	ribed	Date  Month Day Yes  // / / / / / / / / / / / / / / / / /
	16. GENERATOR'S CERTIFICATION: I hereby declare that the composed by proper shipping name and are classified, packed, mark transport by highway according to applicable international and Printed/Typed Name  Michael D. Burdine  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name	ked, and labeled, and are national governmental	enx are ful in all resp regulation	805) lyand sects in	lie, Cali 937-8449 accurately desc proper conditi	ribed	Date  Month Day Yes  V-/ 15
	16. GENERATOR'S CERTIFICATION: I hereby declare that the combone by proper shipping name and are classified, packed, mark transport by highway according to applicable international and Printed/Typed Name  Michael D. Burdine  17. Transporter 1 Acknowledgement of Receipt of Materials	sed, and labeled, and are national governmental Signature Signature Signature	enx are ful in all resp regulation	805) lyand sects in	lie, Cali 937-8449 accurately desc proper conditi	ribed	Date  Month Day Yes  // / / / / / / / / / / / / / / / / /
	16. GENERATOR'S CERTIFICATION: I hereby declare that the composed by proper shipping name and are classified, packed, mark transport by highway according to applicable international and Printed/Typed Name  Michael D. Burdine  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Lydic Harian	sed, and labeled, and are national governmental Signature Signature Signature	enx are ful in all resp regulation	805) lyand sects in	lie, Cali 937-8449 accurately desc proper conditi	ribed	Date  Month Day Yes  Date  Month Day Yes
	16. GENERATOR'S CERTIFICATION: I hereby declare that the composed by proper shipping name and are classified, packed, mark transport by highway according to applicable international and Printed/Typed Name  Michael D. Burdine  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name	Signature Signature	enx are ful in all resp regulation	805) lyand sects in	lie, Cali 937-8449 accurately desc proper conditi	ribed	Date  Month Day Yes  Date  Month Day Yes  Date
	16. GENERATOR'S CERTIFICATION: I hereby declare that the combone by proper shipping name and are classified, packed, mark transport by highway according to applicable international and Printed/Typed Name  Michael D. Burdine  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Life For Mark  18. Transporter 2 Acknowledgement or Receipt of Materials	Signature Signature	enx are ful in all resp regulation	805) lyand sects in	lie, Cali 937-8449 accurately desc proper conditi	ribed	Date  Month Day Yes  Date  Month Day Yes  Date
	16. GENERATOR'S CERTIFICATION: I hereby declare that the composed by proper shipping name and are classified, packed, mark transport by highway according to applicable international and Printed/Typed Name  Michael D. Burdine  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name	Signature Signature	enx are ful in all resp regulation	805) lyand sects in	lie, Cali 937-8449 accurately desc proper conditi	ribed	Date  Month Day Yes  Date  Month Day Yes  Date
	16. GENERATOR'S CERTIFICATION: I hereby declare that the combove by proper shipping name and are classified, packed, mark transport by highway according to applicable international and Printed/Typed Name  Michael D. Burdine  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Hall Hall Hall  18. Wansporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name  19. Discrepancy Indication Space	Signature Signature Signature Signature Signature	ent are ful in all resp regulation	8 sma 805) lly and pects ir ns.	lie, Cali 937-8449 accurately desc proper conditi	cribed on for	Date  Month Day Yes  Date  Month Day Yes  Date
	16. GENERATOR'S CERTIFICATION: I hereby declare that the composed by proper shipping name and are classified, packed, mark transport by highway according to applicable international and Printed/Typed Name  Michael D. Burdine  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name	Signature Signature Signature Signature Signature	ent are ful in all resp regulation	8 sma 805) lly and pects ir ns.	lie, Cali 937-8449 accurately desc proper conditi	cribed on for	Date  Month Day Yes  Date  Month Day Yes  Month Day Yes
	16. GENERATOR'S CERTIFICATION: Thereby declare that the composed by proper shipping name and are classified, packed, mark transport by highway according to applicable international and Printed/Typed Name  Michael D. Burdine  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Hall Hall  18. Wansporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name  19. Discrepancy Indication Space	Signature Signature Signature Signature Signature Signature	ent are ful in all resp regulation	8 sma 805) lly and pects ir ns.	lie, Cali 937-8449 accurately desc proper conditi	cribed on for	Date  Month Day Yes  Date  Date  Month Day Yes  Date
	16. GENERATOR'S CERTIFICATION: I hereby declare that the composed by proper shipping name and are classified, packed, mark transport by highway according to applicable international and Printed/Typed Name  Michael D. Burdine  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name  19. Discrepancy Indication Space	Signature Signature Signature Signature Signature	ent are ful in all resp regulation	8 sma 805) lly and pects ir ns.	lie, Cali 937-8449 accurately desc proper conditi	cribed on for	Date  Month Day Yea  Date  Month Day Yea  Month Day Yea  Month Day Yea  Month Day Yea  Month Day Yea
	16. GENERATOR'S CERTIFICATION: I hereby declare that the composed by proper shipping name and are classified, packed, mark transport by highway according to applicable international and Printed/Typed Name  Michael D. Burdine  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Ifansporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name  19. Discrepancy Indication Space	Signature Signature Signature Signature Signature Signature Signature	entere full in ell respregulation	805) Ilyand pects in ns.	1ia, Cali 937-8449 accurately descriptorer conditi	cribed on for	Date  Month Day Yes  Date  Date  Month Day Yes  Date

Please	print or type. (Form designed for use on elite (12-pitch) typewriter.)		anida a	3 00-	. 1	on in t	no chaded areas
	UNIFORM HAZARDOUS 1. Generator's US EPAID N WASTE MANIFEST	455 Doct	lanifest iment No.	2.Pag of	is not law.	require	he shaded areas ed by Federal
.   3	Generator's Name and Mailing Address The O'Erien Corp	cration		A.Stat	Manifest Do	79	
	450 East Grand A So. San Francisc		94080	B.Sta	e Generator's		
5	Generator's Phone (415 ) 761-2300 Ex 367  Transporter 1 Company Name 6.	US EPA ID Num	ber	C.Sta	te Transporter's	iD ,	57377
	South Bay Chemical Co., Inc. (ADO	00628		D.Tra	nsporter's Phor te Transporter's	1e(10)	3)848-1470
′	. Transporter 2 Company Name 8.	US EPA ID Num	ber		nsporter's Pho		
9	. Designated Facility Name and Site Address 10.	US EPA ID Num	ber	G.Sta	te Facility's ID		
.	South Bey Chemical Co., Inc. 731 Renz Lane			C H.Fac	ADOOO ility's Phone	62	8149
	C43-man C-346 05000	00628		(1	08) 848-1	470	
1	1. US DOT Description (Including Proper Shipping Name, Hezerd Class	, and ID Numbe	12.Conta	Type	13. Total Quantity	14. Unit Wt/Vol	l. Waste No.
E 8 N E R	WASTE, HAZARDOUS WASTE, FLAMMABIE LIQUID, N.O.S	. บท 1993	1		01375	G	<b>5</b> 61
A b	MASTE, HAZARDOUS WASTE, FLAMMABLE LIQUIDNN.O.S	. UN 1993	0 5 4	DM	02970	G	461
C							
	. Additional Descriptions for Materials Listed Above			7 (*) 1.2	ndling Codes for		
b	10, Zinc 1700, all ppm. Solvent 30-45% Water Barium 13, Chromium 4.6, Copper 2.1, Lead 2 all ppm.	r 35-40% 200, Zine L	.4,		14		
	5. Special Handling Instructions and Additional Information						
	wear Gloves and Goggles				<u>.</u> .		
	GENERATOR'S CERTIFICATION: I hereby declare that the content above by proper shipping name and are classified, packed, marked, ar transport by highway according to applicable international and natio	nd labeled, and <b>a</b> r	e in all resp	ects in			
$\prod$	• • • • • • • • • • • • • • • • • • • •		ir regulatio				Date
A	Printed/Typed Name  Michael D. Burdine	natura Marka	216	1/2	reach	- 9	Month Day Yes
Ī	17. Transporter 1 Acknowledgement of Receipt of Materials						Date
F A N S	Printed/Typed Name	nature	_ ثريد				Month Cay Yes
R	18. Transporter 2 Acknowledgement or Receipt of Materials	,					Date 5
E R	Printed/Typed Name Sig	nature					Month Day Yes
FAC	19. Discrepancy Indication Space						
Ţ	<ol> <li>Facility Owner or Operator: Certification of receipt of hazardous r Item 19.</li> </ol>	naterials covered	by this m	enifes	t except as not	ed in	
1.1	Printed/Typed Name Sig	nature					Month Day Yes
\$	outh Bay Chemical Co. Inc. Like Posters Yellow: TSDF SENDS THIS COPY TO G	Life	or Pos	ten		*****	10 14 85
	reliaw: TSDF SENDS THIS COPY TO G	ENERATOR W	IITHIN 30	DAY	'S		

# INTEROFFICE MEMORANDUM



				FILE►
TO:	E. Daly 00		DISTRIBUTION: CC:	N. Johnson 00 R. McCurn 09
FROM:	J. Farris			
OCATION:	Depot Manager			
DATE:	October 28, 1985			
SUBJECT:	FORKLIFT OPERATOR TI	RAINING		
	The following employ training program and 18, 1986: TRADE SALES	yees have succ d are not due	essfully comp for license re	leted the forklift enewal until May
	T. Bazzani R. Davis J. Dawson S. Grandstaff A. Mota R. Polzoni R. Snover	B. Coop D. McPh B. Guss L. Hill J. Broo J. Peek F. Vill	erson oni ck	L. Carter, Jr. J. Montenegro M. Raquiza D. Wisk R. Nelson A. Scott L. Peterson
	<u>DEPOT</u>			
	D. McKee R. Whitehurst N. Galang, Jr. L. Tessier, Jr.	R. Beas J. Dewa W. Gill	rt	R. Singh R. Enriguez J. Stangelini
	IPF			
	R. Angerman C. Howell J. Dominguez	J. Agui J. Wile R. Rosa	<b>y</b> :	S. Moniz G. Brown B. McElheny
٠.	SYNTHETIC RESIN FAC	TORY		
	<pre>C. Smith R. Bustos S. Villalobos</pre>	. W. Bloo .G. Cool M. West	٠.	P. Mrowka S. Robledo

FORKLIFT OPERATOR TRAINING October 28, 1985

#### SHOP

N. Corea

M. Lara

R. Gomez

W. Royal

## QUALITY CONTROL

J. Shehi

L. Matson

The following employees completed their forklift training courses successfully on September 18, 1985 and are not due for renewal until September 18, 1987:

#### IPF

R. Salinas

#### TRADE SALES

B. Lancaster

M. Guerrero

# DEPOT

D. Johns

L. Williams

Upon expiration of forklift operators licenses, a written test will be given and a training film on forklift operation will be shown for renewal of licenses.

J. JF/mm

# I. General Information: - Continued

(D) Nature	e Of Business:
mr 2	Mr. Berding.
Patti	Mr. Berdin. Borni
·	
<del></del> -	
	ription Of Facility Processes:
Ma	ch1 - find CP suimited
Jon	- Mole &
Rem	voil of Daid Sludge - Level, Boin Jan - Class 1 set
-al	L Revetts - 2 sils - F.O. + 57 The - Fully Holes N. A
_do	L Revetts - 2 sils - F. O. + 57 alo - Full Holes N. B
	2 9090 - Corpular dela
	2l 170
<u> </u>	il in life of 4-6"
	il 50 x50 - 15 Dayela 3 = 27 ft3
	36x3(x36 10x10=100
Low	mte 1) Lat Reporte of FON DAS
<del></del>	2) Computer dala
	3) Simply full sute
	7) Munifold soil
	§) Grade del

Det wer ogles with part

#### I. General Information: - Continued

F) Report Attachments:
1145Recion - Wast water breatment
5,000 gd - down 4ft.
Part B-called - well net subout -
Lelle from EPA- Clasery Pord-Plan to- Landed year clear-
D. 5-57 orage - #?
,
Statigged part uffect
Bye secock for Del Dorfler took. Bld 31
Not with from Laty proces task - Tit deone - R.C.R. A after setty - Helder of alene, Poleme
R.C.R. A aft. setty - Huthet of aleur, Poleme
Clandflet is set to of Sun - Slugge gould
look. Trade sale manifactury.
•
Putti said 200 PPm wer the Jeany standard.
Cleans Plan Ruge 50PPM. Willie The Real
STAMBARO PLEASE STAND UP.
1/wk = even soogel
$Q = \beta l = Q$

# II. Interim Status: (Part 270 Subpart G)

				Controlled
(A)	Qualifying For Interim Status:			
1.	For the existing facility to be treated as having been issued a permit, the facility must have:			
a.	Submitted a notification of H.W. activity (270.70a.1)?			
b.	Submitted Part A of the permit application (270.70a.2)?			
c.	Achieved compliance with RCRA interim status standards (270.70b)?			
(B)	Operating During Interim Status:			
1.	Has the facility complied with the following restrictions:			
a.	Has only treated, stored or disposed of H.W. specified in the Part A (270.71a.1)?			
b.	Has only employed processes specified in the Part A (270.71a.2)?	<u></u>		
c.	Has not exceeded design capacities specified in the Part A (270.71a.3)?		_	
(C)	Changes During Interim Status:			
1.	Has a revised Part A been submitted prior to the following changes:			
a.	T/S/D of H.W. not previously identified in the Part A (270.72a)?			
b.	Increases in design capacity of processes (270.72b)?		_	
c.	Changes in or additions to processes (270.72c)?			
đ.	Change in ownership (270.72d)?			
۷.	Have the changes made not amounted to reconstruction (270.72e)?			

### III. General Facility Standards: (Part 265 Subpart B)

	•	<u>Yes</u>	NO	Comments
(A)	Required Notices:			
1.	Has the RA been notified regarding the receipt of H.W. from a foreign source (265.12a)?			
2.	Before transferring ownership, has the facility notified the new owners in writing of the requirements of Parts 265 and 122 (265.12b)?			
(B)	General Waste Analysis:			
1.	Has the facility obtained a detailed chemical and physical analysis of each H.W. (265.13a.1)?			
2.	Does the analysis contain all information that must be known to properly treat, store or dispose of the H.W. (265.13a.1)?	_		
3.	Does the facility have records documenting the required H.W. analysis, e.g., lab reports, published data, generator supplied data (265.13a.2)?			
4.	Has the analysis been repeated to ensure that it is accurate and up-to-date (265.13a.3)?			<del></del>
5.	Is the analysis repeated when there is a change in the process (265.13a.3)?	_		
6.	For off-site facilities, is the analysis repeated when the H.W. received does not match the H.W. designated on the manifest (265.13a.3)?	- Links		
7.	For off-site facilities, does the facility inspect or analyze each movement of H.W. to verify that the H.W. received matches the identity of the H.W. specified on the manifest (265.13a.4)?			
			_	

# III. <u>General Facility Standards</u>: - Continued (Part 265 Subpart B)

		162	NO	Callieres
8.	Does the facility have a detailed waste analysis plan (265.13b)?			
9.	Does the facility follow the procedures specified in the waste analysis plan (265.13b)?			
10.	Does the waste analysis plan contain the following elements:			
a.	Parameters of analysis of each H.W. handled (265.13b.1)?			
b.	Rationale for the selection of each parameter (265.13b.2)?			
c.	Test methods used to obtain a representative sample of H.W. (265.13b.3)?	———		
đ.	Frequency which each analysis will be repeated (265.13b.4)?		-	
e.	For off-site facilities, the analysis that generators have agreed to supply (265.13b.5)?			
11,	Por off-site facilities, does the plan specify procedures for inspection or analysis of each movement of H.W. (265.13c)?			
12.	For off-site facilities, does the plan contain the following elements:			•
a	. Description of procedures used to identify each movement of H.W. (265.13c.1)?			
b	Description of the sampling method used to obtain a representative sample of the H.W. (265.13c.2)?	_		
(C)	Security:			
1.	Do security measures include:			
a	. 24-hour surveillance (265.14b.1)?	/		

# III. General Facility Standards: - Continued (Part 265 Subpart B)

		Yes	NO	Comments
b.	Artificial or natural barriers and controlled entry (265.14b.2)?	<del></del> -	<u>~</u>	
C.	Signs with the legend "Danger- Unauthorized Personnel Keep Out" posted at entrances to active portions of facility (265.14c)?		~	
(D)	General Inspection Requirements:			
1.	Does the facility inspect for equipment malfunctions and deterioration, operator errors, and H.W. discharges (265.15a)?			
2.	Does the facility follow a written inspection schedule (265.15b.1)?			
3.	Is the schedule kept at this facility (265.15b.2)?	_		
4.	Does the schedule identify types of problems that are expected from malfunction, operator error, deterioration or discharges of all: (265.15b.			
a.	monitoring equipment?			
b.	safety, emergency equipment?			
c.	security equipment?	_		
đ.	operating and structural equipment?			
5.	Does the schedule indicate the frequency of inspection for each item (265.15b.4)?			
6.	Does the schedule include daily inspections of loading and unloading areas (265.15b.4)?			
7.	Has the facility taken remedial action to correct the problems revealed on an inspection (265.15c)?			
	•			

# III. General Facility Standards: - Continued (Part 265 Subpart B)

			103	<u></u>	Consideration
	8.	Are inspections recorded in an inspection log (265.15d)?	$\checkmark$		
	9.	Does the log include: (265.15d)			
	a.	Date and time of inspection?	/		
	b.	Name of inspector?			
	c.	Observations recorded?	<u>/</u>		15 fleshing bad OK
	đ.	Date and nature of repairs or other remedial actions?	*		
$\bigcirc$	10.	Are inspection records kept for at least 3 years (265.15d)?		. <u>v</u>	april 83
1	(E)	Personnel Training:			
0	1.	Does the facility have a personnel training program (265.16a.1)?			
	2.	Is it directed by a person trained in H.W. management procedures (265.16a.2)?			
	3.	Does the program include training in: (265.16a.3)			
	a.	Procedures for using, inspecting, repairing and replacing emergency and monitoring equipment?			
	b.	Emergency procedures including contingency plan implementation?			
	4.	Do new personnel receive required training within 6 months (265.16b)?			•
	5.	Do personnel take part in an annual review of the initial training (265.16c)?			

### III. General Facility Standards: - Continued (Part 265 Subpart B)

		163	<u> </u>	Camerics
6.	Do personnel training records include: (265.16d)			
a.	Job titles?			
b.	Job Descriptions?			
c.	Descriptions of training?			
b.	Records of training?			
(F)	Requirements For Ignitable, Reactive Or Incompatible Wastes:	,		
1.	Are the following precautions taken to prevent accidental ignition or reaction: (265.17a)			•
a.	Separation and protection from ignition sources?	<u>~</u>		
b.	No smoking signs in hazard areas?			
2.	Is the T/S/D of ignitable, reactive and incompatible waste conducted so that it does not: (265.17b)			
a.	Generate extreme heat or pressure, fire or explosion, or violent reaction?			
b.	Produce uncontrolled toxic or flammable mists, fumes, dusts or gases?			***************************************
c.	Damage structural integrity of H.W. containment devices? (e.g., tanks, containers, liners)			
d.	Threaten human health or the environment?			

# IV. Preparedness and Prevention: (Part 265 Subpart C)

		162	10	Contienes
(A)	Is the facility designed, constructed, maintained, and operated to minimize the possibility of fire, explosion, or releases of H.W. or H.W. constituents to air, soil, or surface water which could threaten human health or the environment (265.31)?			
(B)	Required Equipment:			
1.	Does the facility have the following equipment where applicable:			
a.	Internal communications or alarm systems (265.32a)?		-	
b.	Telephone or 2-way radios at the scene of operation (265,32b)?	_		
c.	Portable fire extinguishers with water, foam, inert gas, dry chemical spill control and decontamination equipment (265.32c)?	;		
d.	Water at adequate volume and pressure or foam producing equipment or automatic sprinklers (265.32d)?			
(C)	Testing And Maintenance Of Equipment			
1.	Does the facility test and maintain emergency equipment in operable condition (265.33)?			
(D)	Access To Communications Or Alarm Sys	stems:		
1.	Do personnel in areas where H.W. is being handled have immediate access to these systems (265.34)?			
(E)	Required Aisle Space:			
1.	Is their adequate aisle space for unobstructed movement of fire, spill control and decontamination equipment in an emergency (265.35)?			

### 

		Yes	NO_	Comments
(F)	Arrangements With Local Authorities:			
1.	Has the facility made the following arrangements:			
а.	Arrangements to familiarize police, fire dept., and emergency response team with H.W. operations (265.37a.1)?			
ь.	Agreements designating primary emergency authority (265.37a.2)?			
C.	Agreements with State emergency response teams, contractors and equipment suppliers (265.37a.3)?		_	
đ.	Arrangements to familiarize local hospitals with the properties of H.W. and the types of potential injuries and illnesses from exposure to H.W. (265.37a.4)?		_	
2.	Did the facility document in the operating record any refusal by State or local authorities to enter into such arrangements (265.37b)?			

### V. Contingency Plan and Emergency Procedures: (Part 265 Subpart D)

		163	100	Collineries		
(A)	Does the facility have a contingency plan (265.51a)?			<del></del>		
(B)	Content Of Contingency Plan:					
1.	Does the plan describe actions personnel must take to comply with \$\$ 265.51 & 265.56 in response to fires, explosions, or unplanned releases of H.W. (265.52a)?		*		 	
2.	Does the plan describe arrangements agreed by police, fire dept., hospitals, contractors, and State and local emergency response teams to coordinate emergency services pursuant to § 265.37 (265.52c)?			-		
3.	Does the Plan list names, addresses, and phone numbers (office & home) of all persons qualified to act as emergency coordinators (265.52d)? (list in order of responsibility)		_			
4.	Does the plan list all emergency equipment including the location and physical description of each item on the list and a brief outline of its capability (265.52e)?		. —		 	
5.	Does the plan include an evacuation plan for personnel and a description of signals to begin evacuation, evacuation routes and alternate routes (265.52f)?		·	<u> </u>		
(C)	Copies of Contingency Plan:					
1.	Is the plan maintained at the facility (265.53a)?				 	
2.	Has the plan been submitted to all local emergency organizations (265.53b)?					

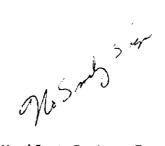
# V. <u>Contingency Plan and Emergency Procedures:</u> - Con't. (Part 265 Subpart D)

		<u>Yes</u>	No	Connents
(D)	Amendment Of Contingency Plan:			
1.	Has the plan been reviewed and immediately amended when required (265.54)?			
(E)	Emergency Coordinator:			
1.	Is the coordinator familiar with all aspects of site operation and emergency procedures (265.55)?			
2.	Does the coordinator have authority to carry out the contingency plan (265.55)?	_		
(F)	Emergency Procedures:	•		
1.	If an emergency situation has occurred at this facility, has the emergency coordinator followed the emergency procedures listed in § 265.56 (265.56)?			

### VI. Manifest System, Recordkeeping, and Reporting: (Part 265 Subpart E)

		Yes	No	Comments
A)	Use of Manifest System:			·
1.	Does the facility comply with the following manifest requirements:			
a.	Sign and date each copy of the manifest (265.71a.1)?		_	
b.	Note any significant * discrepancies in the manifest (265.71a.2)?			
c.	Give transporter one copy of the signed manifest (265.71a.3)?			
đ.	Within 30 days after delivery, send a copy of the manifest to the generator (265.71a.4)?	_		
2.	Are records of past shipments retained for 3 years (265.71a.5)?		_	
(B)	Manifest Discrepancies:			
1.	Upon discovering a significant discrepancy, has the facility made an attempt to reconcile the discrepancy with the generator or transporter (265.72b)?			
2.	For discrepancies not reconciled within 15 days, has the facility followed the required reporting procedures (265.72b)?			
(C)	Operating Record:			
1.	Does the facility maintain an operating record (265.73a)?			<del></del>

- \* Significant discrepancies are:
  - 1. For bulk waste; variations > 10% in weight
  - 2. For containerized waste; variations > one drum
  - 3. Obvious differences such as waste solvent substituted for waste acid



### VI. Manifest System, Recordkeeping, and Reporting: - Con't (Part 265 Subpart E)

		res	NO_	Comments
2.	Does the operating record contain the following information:			•
a.	A description and the quantity of each waste received (265.73b.1)?			
b.	The method(s) and date(s) of its treatment, storage or disposal as required by Appendix I (265.73b.1)?			
c.	The location of each waste within the facility and the quantity at each location (265.73b.2)? (This information must include cross-references to specific manifest numbers.)			<del></del>
đ.	For disposal facilities, the location and quantity of each waste is recorded on a map or diagram of each cell or disposal area (265.73b.2)?	ry/r		
·e.	Records and results of all waste analysis and trial tests (265.73b.3)?	·		
f.	Reports detailing all incidents that required implementation of the contingency plan (265.73b.4)?		Minneyee	
g.	Records and results of operator inspections (265.73b.5)?			
h.	Monitoring data (265.73b.6)?			
i.	All closure and post-closure costs as applicable (265.73b.7)?			
(D)	Availability, Retention, Disposition Of Records:	1		
1.	Are all records including plans available for inspection (265.74a)?			
2.	Have copies of records of H.W. disposal locations and quantities under § 265.73b.2 been submitted to the RF and local land authority upon closure of the facility (265.74c)?			

# VI. Manifest System, Recordkeeping, and Reporting: - Con't. (Part 265 Subpart E)

		<u>res</u>	NO_	Comencs
E)	Biennial Report:			
1.	Has the facility submitted a biennial report to the RA by March 1 of each even numbered year (265.75)?			
2.	Was the report submitted on EPA form 8700-13B and cover facility activities during the previous calendar year ( 265.75)?		_	
3.	Does the report include the following infromation: (265.75)			
a.	EPA identification number, name and address of the facility?			
b.	Calendar year covered by report?			
C.	For off-site facilities, the EPA identification number of each generator?			
d.	Description and quantity of each H.W. received and, for off-site facilities, the EPA identification number of each generator listed with this information?			
e.	Methods of treatment, storage, or disposal for each H.W.?			
f.	Monitoring data under § 265.94a.2.ii and iii and b.2 ?	i 		
g.	Most recent closure and post-closure cost estimates?	e 		·
h.	Required certification?			

# VI. Manifest System, Recordkeeping, and Reporting: - Con't (Part 265 Subpart E)

		<u>Yes</u>	No	Comments
(P)	Unmanifested Waste Report:			
1.	For a facility that has accepted a H.W. from an off-site source without an accompanying manifest, was a report containing the required information submitted to the RA within 15 days after receiving the H.W. (265.76a-g)?			
(G)	Additional Reports:			
1.	Has the facility reported to the RA: (265.77)			
a.	Releases, fires and explosions?			
b.	Ground-water contamination and monitoring data?			
c.	Facility closure?			

#### VII. Ground-Water Monitoring: (Part 265 Subpart F)

		162	140	Colline 1703	
(A)	Has a ground-water monitoring program (capable of determining the facility's impact on the quality of ground-water in the uppermost aquifer underlying the facility) been implemented (265.90a)?				
(B)	Ground-Water Monitoring System:				
1.	Has at least one monitoring well been installed in the uppermost aquifer hydraulically upgradient from the limit of the waste management area (265.91a.1)?				
a.	Are ground-water samples from the uppermost aquifer representative of background ground-water quality and not affected by the facility? (as ensured by proper well number, locations and depths) (265.91a.1)				
2.	Have at least three monitoring wells been installed hydraulically down- gradient at the limit of the waste management area (265.91a.2)?	s			
а.	Do well numbers, locations and depths ensure prompt detection of any statistically significant amounts of H.W. or H.W. constituents that migrate from the waste management area to the uppermost aquifer (265.91a.2)?				
3.	Have the locations of the waste management areas been verified to conform with information in the ground-water program (265.91b)?				
a.	If the facility contains multiple waste management components, is each component adequately monitored (265.91 b & b.2)?	l			

			Yes	No_	Comments
	depths agree ground	numbers, locations, and of the monitoring wells with the data in the water monitoring system m (265.91b)?			<u> </u>
5.	Well o	completion details: (265.91c)			
a.	Are we	ells properly cased?			
b.	packe	ells properly screened and d where necessary to enable ing at appropriate depths?			· · · · · · · · · · · · · · · · · · ·
c.		nnular spaces properly sealed event contamination of ground- ?			
(C)	Sampl	ing And Analysis:			• •
1.	analy	ground-water sampling and sis plan been developed 92a)?	_		
a	. Has i	it been followed?			****
ь	. Is th	ne plan kept at the facility?		<del></del>	
C		the plan include procedures echniques for:			
	i.	Measurement of ground- water surface elevations (265.92a.1)?			
	ii.	Sample collection (265.92a.1)?	·		
	iii.	Sample preservation (265.92a.2	2)?		
	iv.	Sample shipment (265.92a.2)?		<u> </u>	
	v.	Analytical procedures (265.92a.3)?	<del></del>	. <u>-</u>	· · · · · · · · · · · · · · · · · · ·
	vi.	Chain of custody control (265.92a.4)?			

		162	140	Williemes
2.	Are the required parameters in ground-water samples being tested quarterly for the first year (265.92b and 265.92c.1)?			
a.	Are the ground-water samples analyzed for parameters characterizing the suitability of the groundwater as a drinking water supply * (265.92b.1)?	·		
b.	Are the ground-water samples analyzed for parameters establishing ground-water quality * (265.92b.2)?	J		
C.	Are the ground-water samples analyzed for parameters used as indicators of ground-water contamination * (265.92b.3)?			•
2.	For each indicator parameter are at least four replicate measurements obtained at each upgradient well fo each sample obtained during the first year of monitoring (265.92c.2)			
3.	Are provisions made to calculate the initial background arithmetic mean and variance of the respective parameter concentrations or values obtained from the upgradient well(s during the first year (265.92c.2)?	<del>-</del>		
*	EPA interim primary drinking water Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Nitrate(as N), Selen	, Fluo	ride,	

Parameters establishing ground-water quality: Chloride, Iron, Manganese, Phenols, Sodium, Sulfate.

Turbidity, Coliform Bacteria.

Endrin, Lindane, Methoxychlor, Toxaphene, 2-4 D, 2,4,5-TP Silver, Radium, Gross Alpha, Gross Beta,

Parameters used as indicators of ground-water contamination: pH, Specific Conductance, Total Organic Carbon, Total Organic Halogen.

		<u>Yes</u>	NO_	Comments
4.	For facilities which have completed first year ground—water sampling and analysis requirements:			
a.	Have samples been obtained and analyzed for the ground-water quality parameters at least annually (265.92d.1)?			
b.	Have samples been obtained and analyzed for the indicators of ground-water contamination at least semi-annually (265.92d.2)?	_		
5.	Were ground-water surface elevations determined at each well each time a sample was taken (265.92e)?			
D)	Preparation, Evaluation, And Respons	e:	•	
1.	Has an outline of a ground-water quality assessment program been prepared (265.93a)?		<del></del>	
a.	Does it describe a program capable of determining:			
	i. Whether H.W. or H.W. constituents have entered the ground-water (265.93a.1)?			
	ii. The rate and extent of migrat- ion of H.W. or H.W. constit- uents (265.93a.2)?			
	iii. Concentrations of H.W. or H.W. constituents in ground-water (265.93a.3)?	<u> </u>		
2.	After the first year of monitoring, have at least 4 replicate measurements of each indicator parameter been obtained for samples taken for each well (265.93b)?			

		Yes	NO	Comments
a.	Were the results compared with the initial background means from the upgradient well(s) determined during the first year (265.93b)?	_	<del></del>	
	i. Was each well considered individually (265.93b)?			
	<pre>ii. Was the Student's t-test used   (at the 0.01 level of     significance) (265.93b)?</pre>			
b.	Was a significant increase (or pH decrease) found in the:			
	i. Upgradient wells?			
	ii. Downgradient wells?			
	If "Yes", complete the Compliance Form For A Facility Which May Be Affecting Ground-Water Quality.			
3.	Were the ground-water surface elevations evaluated annually to determine whether the monitoring wells are properly placed (265.93f)?			
4.	If it was determined that modifi- cation of the number, location or depth of monitoring wells was necessary, was system brought into compliance with 265.91a (265.93f)?		·	
E)	Recordkeeping And Reporting:			•
1.	Have records been kept of analysis for parameters in 265.92c and d (265.94a.1)?		·	
2.	Have records been kept of ground- water surface elevations taken at the time of sampling for each well (265.94a.1)?			

			ies	NO	Connents
3.		records been kept of required ations in 265.93b (265.94a.1)?	<del></del>		
4.		the following been submitted to A: (265.94a.2)			
a.	param 15 da terly	al background concentrations of eters listed in 265.92b within mys after completing each quar- analysis required during the year?		****	
b.	whose excee level	each well, have any parameters e concentrations or values have ded the maximum contaminant is allowed in drinking water ies been separately identified?			
c.	Annua	l reports including:			
		Concentrations or values of parameters used as indicators of ground-water contamination for each well along with required evaluations under 265.93b?			
	ii.	Any significant differences from initial background values in upgradient wells separately identified?	,		
	iii.	Results of the evaluation of ground-water elevations?			

#### Compliance Form For A Facility Which May Be Affecting Ground-Water Quality

			<del></del>	Catalonics
1.	Have comparisons of ground-water contamination indicator parameters for the upgradient well(s) shown a significant increase (or pH decrease) over initial background?			
a.	If "Yes", has this information been submitted to the RA according to 265.94a.2.ii (265.93c.1)?	<del></del>		
2.	Have comparisons of indicator parameters for the downgradient wells shown a significant increase (or pH decrease) over initial background?			
a.	If "Yes", were additional ground- water samples taken for those down- gradient wells where the significant differences was determined (265.93c.2)?			
	i. Were samples split in two?			
	ii. Was the significant differences due to human (e.g., laboratory) error?			
	If "Yes", do not continue			
3.	If significant differences were not due to error, was a written notice sent to the RA within 7 days of confirmation (265.93d.1)?			
4.	Within 15 days of notification to the RA was a certified ground-water quality assessment plan submitted (265,93d,2)?			

### Compliance Form For A Facility Which May Be Affecting Ground-Water Quality

		Yes	No .	Comments
5.	Does the ground-water quality assessment plan specify: (265.93d.3)			
a.	Monitoring well information including well numbers, locations and depths?			
b.	Sampling methods?			
C.	Analytical methods?			
d.	Evaluation methods?			
e.	Schedule of implementation?			
6.	Does the plan allow for determination of: (265.93d.4)			
a.	Rate and extent of migration of H.W. or H.W. constituents?			
b.	Concentrations of the H.W. or H.W. constituents?			
7.	Is it indicated that the first deter- mination was made as soon as technically feasible (265.93d.5)?		. <del></del>	
a.	Within 15 days after the first determination was a written report containing the assessment of ground-water quality submitted to the RA?	_		
8.	Was it determined that H.W. or H.W. constituents from the facility have entered the ground-water?	_		
a.	If "No", was the original indicator evaluation program, required by 265.92 and 265.93b, reinstated?			
b.	Was the RA notified of the reinstatement of the program within 15 days of the determination (265.93d.6)?			

### Compliance Form For A Facility Which May Be Affecting Ground-Water Quality

	•	Yes	<u>No</u>	Comments
9.	If it was determined that H.W. or H.W. constituents have entered the ground-water: (265.93d.7)			
a.	For facilities where the program was implemented prior to final closure, are determinations of H.W or H.W. constituents continued on a quarterly basis (265.93d.7)? (If the program was implemented during the post-closure care period, determinations made in accordance with the ground-water quality assessment plan may cease after the first determination.)			
b.	Were subsequent ground-water quality reports submitted to the RA within 15 days of determination (265.93d.7)?		_	
c.	Were records kept of the analysis and evaluations specified in the ground—water quality assessment (throughout the active life of the facility) (265.94b.1)?			
d.	If a disposal facility, were (are) records kept throughout the post-closure period as well (265.94b.1)?			
10.	Are annual reports submitted to the RA containing the results of the ground-water quality assessment program (265.94b.2)?			
а.	Do the reports include the calculated or measured rate of migration of H.W. or H.W. constituents during the reporting period (265.94b.2)?			

### Compliance Form For Demonstrating A Waiver Of Interim Status Requirements

		Yes	<u>No</u>	Comments
1.	Is a written waiver demonstration kept at the site (265.90c)?			
2.	Is the demonstration certified by a qualified geologist or geotechnical engineer (265.90c)?			
3.	Does the waiver demonstration establish the potential for migration of H.W. or H.W. constituents from the facility to the uppermost aquifer (265.90c.1)?			·
a.	Does the evaluation of a water balance include:			
	<ul><li>i. Precipitation?</li><li>ii. Evapotranspiration?</li><li>iii. Runoff?</li><li>iv. Infiltration? (including any liquid in surface impoundments)</li></ul>			
b.	Does the evaluation of the un- saturated zone characteristics include:			
	<ul><li>i. Geologic Materials?</li><li>ii. Physical Properties?</li><li>iii. Depth to ground-water?</li></ul>		<u></u>	
4.	Does the waiver demonstration establish the potential for H.W. or H.W constituents which may enter the uppermost aquifer to migrate to a water supply well or surface water (265.90c.2)?	_		
a.	Does the evaluation of the saturated zone characteristics include?			
	<ul> <li>i. Geologic materials?</li> <li>ii. Physical properties?</li> <li>iii. Rate of ground-water flow?</li> <li>iv. Proximity of the facility to water supply wells or surface water?</li> </ul>			

# VIII. Closure and Post-Closure: (Part 265 Subpart G)

		Yes	<u>No</u>	Comments
(A)	Closure Plan:			
1.	Does the facility have a closure plan (265.112a)?			
2.	Does the plan identify the steps necessary to completely or part- ially close the facility at any point during its intended opera- ting life and to completely close at the end of its intended operating life (265.112a)?		_	,
3.	Do the steps to close in the plan include: (265.112a)			
a.	Pre-treatment of H.W.?			
b.	Treatment of H.W.?			
c.	Removal of H.W. from process units?			
d.	Disposal of H.W.?			
е.	Decontamination of equipment and structures?			
f.	Scheduled inspections for closure certification purposes?			
3.	Does the description of how and when the facility will be closed include the following elements:			
a.	Maximum extent of operation which will be unclosed during the life of the facility (265.112a.1)?	_		<u></u>
	For facilities that have designated H.W. management areas inactive prior to Nov. 19, 1980, are records available documenting the cessation of activity or final closure?			
	Was a Notification of Hazardous Waste Site submitted to EPA as required by § 103c of CERCLA ?			

# VIII. <u>Closure and Post-Closure</u>: - Continued (Part 265 Subpart G)

		Yes	NO.	Comments
	Estimate of the maximum inventory of H.W. in storage and in treatment at any time during the life of the facility (265.112a.2)?			
c.	Does the inventory include the maximum amount of on-site:			
	H.W. in surface impoundments?	<del></del>		
	H.W. in tanks?			
	H.W. in piles?			
	H.W. in containers?			
	H.W. in drainage pits or sumps?		<del></del>	
	Contaminated soil from spills or leaks?			
	Contaminated soils and liners from non-disposal impoundments?			
	Contaminated soils from land treatment fields?			
	Decontamination residues?			
	Process residues?		. —	
	Other (specify)?			
d.	Decontamination procedures including: (265.112a.3)			
	A list of equipment, containers, structures requiring decontamination?	·		
	Sampling and analytical methods for determining whether soil contamination or decontamination residues are H.W.?		<u></u>	
	Testing criteria for determining adequacy of clean-up?			
	Methods of treatment or disposal of contaminated soils and residues?			

# VIII. Closure and Post-Closure: - Continued (Part 265 Subpart G)

		165	<u></u>	California
е.	Estimate of the expected year of closure (265.112a.4)?			
f.	Schedule for final closure activities (265.112a.4)?			
g.	Does the schedule include:			
	Total time required to close?	<u>.</u>		
	Time required for intervening closure activities? (e.g., Time required for H.W. treatment, disposal, decontamination, and certification inspections.)			-
4.	Has the facility amended the plan whenever changes in operating practice or process design affect the plan or there is a change in the expected year of closure (265.112b)? (Plan must be amended within 60 days of the changes.)			
5.	Has the facility submitted a closure plan to the RA at least 180 days before the date they expect to begin closure (265.112c)?			
B)	Time Allowed For Closure:			
1.	Does the schedule for final closure allow for the following:			
а.	Treatment, removal, or disposal of H.W. within 90 days after receipt of final volume of H.W. or after approval of closure plan (265.113a)?			
b.	Completion of closure plan activities within 180 days after receipt of final volume of H.W. or after approval of closure plan (265.113b)?			

#### VIII. <u>Closure and Post-Closure</u>: - Continued (Part 265 Subpart G)

		Yes	NO_	Comments
(C)	Disposal And Decontamination Of Equipment:			
1.	For facilities that have completed closure activities, has all equipment and structures been properly disposed of or decontaminated by removing all H.W. and contaminated residues (265.114)?			
(D)	Certification Of Closure:			
1.	For facilities that have completed closure activities, has a certification by owner/operator and an independent registered professional engineer been submitted to the RA (265.115)?	_	_	
(E)	Partial Closure:			
1.	Does the facility plan to close discreet regulated H.W. manage-units during the intended operating life?			
	If "Yes" complete compliance form for partial closure.			

# VIII. <u>Closure and Post-Closure</u>: - Continued (Part 265 Subpart G)

#### Compliance Form For Partial Closure

		ies	NO	Camerics
(E)	Partial Closure:			
1.	Does the closure plan describe how the facility will be partially closed (265.112a.1)?	<del></del>		
2.	Does the plan describe the size of areas partially closed?			
3.	Does the plan describe the procedures for partial closure?			
4.	Does the plan address maintenance activities, including: (265.112a.1)			
b. c. d. e. f. g. h.	Visual inspections? Ground-water monitoring? Maintaining cover? Maintaining diversion structures? Controlling erosion? Maintaining vegetation? Maintaining site security systems? Leachate collection system? Gas collection system? Other (specify)?			
5.	Does the plan describe the frequencies for each type of maintenance activity (265.112a.1)?			
6.	Does the plan describe when the facility will be partially closed (265.112a.1)?	<del></del>		
7.	Does the schedule for partial closure include: (265.112a.1)			
b.	Date(s) of partial closure(s)? Total time required for each partial closure? Time required for intervening partial closure activities?			
	(e.g., time required for waste removal, stabilization, treatment, disposal; placement of cover; vegetation; decontamination; certificati	on.)		

# VIII. Closure and Post-Closure: - Continued (Part 265 Subpart G)

		Yes	<u>NO</u>	Comments
F)	Post-Closure:			
1.	Does the facility have a post- closure plan (265.118a)?			
2.	Does the plan cover the maximum area expected to contain H.W. after closure, including: (265.118a)			
b.	Landfills? Disposal surface impoundments? Land treatment facilities where H.W. will remain?	<del></del>		
đ.	Other remaining H.W. (specify)?	_		
3.	Does the plan cover all areas where H.W. will remain that were active as of Nov. 19, 1980 (265.118a)?			
4.	Does the plan provide for 30 years of post-closure care (265.117a)?	_	—	
5.	Does the plan clearly identify the activities required in post-closure care (265.118a)?			
6.	Does the plan clearly identify the frequencies for post-closure care activities (265.118a)?			
7.	Does the plan describe ground-water monitoring, including: (265.118a.1)			
	Number of wells? Sample collection activities and			
c.	frequencies? Sample testing procedures and frequencies?			
d.	Replacement of failed wells?			

# VIII. Closure and Post-Closure: - Continued (Part 265 Subpart G)

		163	140	Contents
8.	Does the plan describe maintenance for waste containment structures, including the types of activities and frequency of activities necess- ary to maintain: (265.118a.2)			
a.	Site security systems?			
	Surveyed benchmarks?			
c.	Facility monitoring systems?			
d.	Final cover (erosion damage repair)?			
	Vegetation (fertilizing and mowing)?			
f.	Runoff collection and treatment systems?			
σ.	Runon control systems?			
	Leachate collection, removal and treatment systems?			
	Gas collection and treatment			
1.	systems?			
i	Other (specify)?			
٠.	Other (specify).			
9.	Does the plan identify the name, address and phone number of the			
,	post-closure period contact			
	(265.118a.3)?			
	,		<del></del>	
10.	Did the facility amend the plan when-	-		
_	ever changes in operating practices,			
	or process design, or events which			
	occur during the active life of the			
	facility, affect their post-closure	,		
	plan (265.118b)?			
	(Plan must be amended within 60 days			
	after the changes or events occur.)			
	_			
11.	Did the facility submit their post-			
	closure plan to the RA at least 180			
	days before they expect to begin			
	closure (265.118c)?			
12.	Did the facility amend the plan			
	whenever changes in monitoring or			
	maintenance plans or events which			
	occur during the post-closure care			
	period affect their post-closure			
	plan (265.118e)?			
	(Facility must petition RA to amend			
	plan in accordance with procedures			
	specified in § 265.118f.)			

### VIII. <u>Closure and Post-Closure</u>: - Continued (Part 265 Subpart G)

		Yes	<u>No</u>	Comments
(G)	Notice To Local Land Authority:			
1.	For disposal facilities, were the following documents submitted to the RA and local land authority within 90 days after closure was completed: (265.119)			
а.	A survey plat indicating the locations and dimensions of landfill cells or other disposal areas with respect to permanently surveyed benchmarks?			
b.	A record of the type, location, and quantity of H.W. disposed of within each cell or area of the facility?			
c.	A record of the type, location, and quantity of the wastes disposed of before Nov. 19, 1980?	<del></del>		
(H)	Notice In Deed To Property:			·
1.	For disposal facilities, did the owner of the property record in the deed a notation that will in perpetuity notify any potential purchaser of the property that the land was used to manage H.W. and its use is restricted under § 265.117c (265.120)?			

### IX. Financial Requirements: (Part 265 Subpart H)

Comments

(A)	Cost Estimate For Closure:	
1.	Has a written estimate been prepared of the cost of closing the facility (265.142a)?	
	What is the amount of the closure co	st estimate? §
2.	Does the estimate equal the cost of closure at the point when the extent and manner of the operation would make closure the most expensive (265.142a)?	
3.	Does the cost estimate cover all the activities in the closure plan (265.142a)?	
4.	Has the cost estimate been adjusted for inflation within 30 days after each anniversary of the date on which the first cost estimate was prepared (265.142b)?	
5.	Was the adjustment made by using an inflation factor derived from the Annual Implicit Price Deflator for Gross National Product as published by the U.S. Dept. of Commerce in its "Survey of Current Business" (265.142b)?	
	test Annual Deflator =	
Prev	ious Annual Deflator =	
	Inflation Factor =	(latest deflator/previous deflator)
Cur	rent Cost Adiustment = \$	(latest adjusted estimate x inflation factor

# IX. <u>Financial Requirements</u>: - Continued (Part 265 Subpart H)

		Yes	NO_	Comments
6.	Was the cost estimate revised when- ever a change in the closure plan increased the cost of closure (265.142c)? (Revised estimate must be adjusted for inflation.)	<del></del>		
7.	Are the following kept at the facility during the operating life of the facility: (265.142d)			
a.	Latest closure cost estimate?			
b.	Latest adjusted closure cost estimate?	_		
8.	Is there written documentation supporting the closure cost estimate?		<del></del> .	<del></del>
a.	Workups from labor, material and equipment requirements?	_		
b.	Contractor estimates and bids?			
c.	Figures derived from cost estimating handbooks?	_		
đ.	Figures derived from operator experience?		. <u></u>	
9.	Does the estimate accurately reflect the cost of closure for similar types of facilities?			

### 

Yes No Comments

(B)	Cost Estimate For Post-Closure Care:			
1.	Has a written estimate been prepared of the annual cost of post-closure monitoring and maintenance of the facility (265.144a)?			-
	What is the amount of the post-closur	e cost o	estima	te? <u>\$</u>
2.	Is the annual estimate multiplied by 30 to cover the entire post-closure care period (265.144a)?			
3.	Does the cost estimate cover all activities in the post-closure plan (265.144a)?			
4.	Has the cost estimate been adjusted for inflation within 30 days after each anniversary of the date on which the first cost estimate was prepared (265.144b)?			
5.	Was the adjustment made by using an inflation factor derived from the annual Implicit Price Deflator for Gross National Product as published by the U.S. Dept. of Commerce in its "Survey of Current Business" (265.144b)?	·	-	· · · · · · · · · · · · · · · · · · ·
	Latest Annual Deflator =			
Pr	revious Annual Deflator =			
	Inflation Factor =	(Latest	Defla	ator/Previous Deflator)
	Annual Cost Adjustment = \$	(L	atest	Adjusted Estimate x Inflation Factor)
Post	-Closure Cost Estimate = \$	(A	nnual	Cost Adjustment x 30)

# IX. Financial Requirements: - Continued (Part 265 Subpart H)

		<u>Yes</u>	<u>No</u>	Comments
6.	Was the cost estimate revised when- ever a change in the post-closure plan increased the cost of post- closure (265.144c)? (Revised estimate must be adjusted for inflation.)		_	
7.	Are the following kept at the facility during the operating life of the facility: (265.144d)			
a,	Latest post-closure cost estimate?			
b.	Latest adjusted post-closure cost estimate?			
8.	Is there written documentation supporting the post-closure cost estimate?			
a.	Workups for labor, material and equipment requirements?			
b.	Contractor estimates and bids?			
c.	Figures derived from cost estimating handbooks?			
d.	Figures derived from operator experience?			
9.	Does the estimate accurately reflect the cost of post-closure for similar types of facilities?			

# X. Use And Management Of Containers: (Part 265 Subpart I)

		<u>168</u>	NO	Comencs
1.	Does the facility transfer H.W. from containers not in good condition or leaking to containers in good condition (265.171)?	<u>√</u>		
2.	Are containers compatible with H.W. stored in them (265,172)?	<u> </u>		
3.	Are containers stored closed (265.173a)?	<u>~</u>		· <u></u>
4.	Are containers managed to prevent rupture or leakage (265.173b)?	$\checkmark$		
5.	Are containers inspected weekly for leaks and deterioration (265.174)?	<u> </u>		·
6.	Are ignitable or reactive wastes stored at least 50 feet from the facility's property line (265.176)?	?		
7.	Are incompatible wastes stored in separate containers (265.177a)?	4(1		
8.	Are H.W. not placed in unwashed containers that previously held an incompatible waste or material (265.177b)?			
9.	Are containers holding a H.W. that is incompatible with any waste or materials stored nearby in other containers, piles, open tanks, or surface impoundments separated from the incompatibles by suffecient distance or protected by means of a dike, berm wall, or other device (265.177c)?		and the contract of	·
10.	Are containers that are not empty managed as a H.W. (261.7a.2)?	<u></u>		
11.	For a container to be considered empt the facility must ensure that:	Y		
	No more than one inch of residue remains on bottom of container or inner lining (261.7b.1)? Containers that held an acutely H.W. are tripled rinsed using a solvent capable of removing the contents (261.7b.3)?	<u>V</u>	_	
	· · · · · · · · · · · · · · · · · · ·			

#### XI. <u>Tanks</u>: (Part 265 Subpart J)

		<u>Yes</u>	NO	Comments
1.	Is the treatment or storage of H.W. in tanks conducted so that it does not: (265.192a)			
а.	Generate extreme heat or pressure; fire or explosion; or violent reaction?			
b.	Produce uncontrolled toxic or flammable mists, fumes, dusts, or gases?			
c.	Damage the structural integrity of the tank?	_		
2.	Are H.W. or treatment reagents placed in a tank so that they do not cause the tank or its inner liner to rupt- ure, leak, corrode, or otherwise fail (265.192b)?			
3.	Do uncovered tanks have at least 2 feet of freeboard, or dikes, or other containment features (265.192c)?			
4.	Where H.W. is continuously fed into a tank, is the tank equipped with a waste feed cutoff system or by-pass system to a stand-by tank (265.192d)?		_	
5.	Does the facility conduct waste analysis and trial treatment or storage tests, or have they obtained written documentation on similar storage or treatment of similar waste under similar operating conditions before the tank is used to:			
a.	Chemically treat or store a H.W. which is substantially different from waste previously treated or stored in the tank (265.193a.1)?			
b.	Chemically treat H.W. with a substantially different process than was previously used (265.193a.2)?			

#### XI. <u>Tanks</u>: - Continued (Part 265 Subpart J)

		Yes	<u>No</u>	Comments
6.	Are daily and weekly inspections done for the following:			
a.	Discharge control equipment e.g., feed cutoff, bypass and drainage systems (Daily) (265.194a.1)?			
b.	Data gathered from monitoring equip- ment e.g., pressure and temperature		_	· · · · · · · · · · · · · · · · · · ·
c.	gauges (Daily) (265.194a.2)? Level of waste in uncovered tanks (Daily) (265.194a.3)?	<del></del>	<del></del>	
d.	Construction materials of tank e.g., corrosion, leaking fixtures or seams (Weekly) (265.194a.4)?			
е.	Discharge confinement structures e.g., dikes (Weekly) (265.194a.5)?			
7.	At closure, are all H.W. and residues removed from tanks and associated equipment and structures (265.197)?			
8.	Are ignitable or reactive waste treated, rendered, or mixed before or immediately after placement in a tank so that the resulting waste no longer meets the definition of ignitability or reactivity (265.198a.1)? or			
9.	Are ignitable or reactive waste stored or treated in such a way that it is protected from conditions which may cause the waste to ignite or react (265.198a.2)?			
10.	Does the facility comply with the buffer zone requirements for covered tanks containing ignitable or reactive wastes specified in tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code" (1977 or 1981) (265.198b)?			
11.	Are incompatible wastes stored in separate tanks (265.199a)?			
.12.	Are H.W. not placed in unwashed tanks that previously held an incompatible waste or material (265.199b)?		-	

# XII. Surface Impoundments: (Part 265 Subpart K)

		Yes	<u>No</u>	Comments
1.	Do impoundments have at least 2 feet of freeboard (265.222)?			
2.	Do earthen dikes have protective cover to minimize wind and water erosion and to preserve their structural integrity (265.223)?			
3.	Does the facility conduct waste analysis and trial treatment tests, or have they obtained written documentation on similar treatment of similar waste under similar opreating conditions before the impoundment is is used to:			
	Chemically treat a H.W. which is substantially different from waste previously treated in the impoundment (265.225a.1)? Chemically treat H.W. with a		·	
	substantially different process than was previously used (265.225a.2)?			***
4.	Is the treatment of H.W. in impound- ments conducted so that it does not: (265.225a.2)			
a.	Generate extreme heat or pressure; fire or explosion; or violent reaction?			
b.	Produce uncontrolled toxic or flammable mists, fumes, dusts, or gases?		<del></del>	
c.	Damage the structural integrity of the liner?			
d.	Threaten human health or the environment?			
5.	Is the freeboard level inspected at least daily (265.226a.1)?			
6.	Are the dikes inspected weekly for evidence of leaks, deterioration or failure (265.226a.2)?			

# XII. Surface Impoundments: - Continued (Part 265 Subpart K)

		<u>Yes</u>	<u>No</u> _	Comments
7.	At closure, has the facility removed from the impoundments: (265.228a)			
b. c.	Standing liquids? Waste and waste residues? The liner, if any? Underlying and surrounding contaminated soil?		=	
8.	At closure, has the facility demonstrated under § 261.3 c & d that none of the materials listed in (7) remaining at any stage of removal are H.W. (265.228b)?			
9.	If the answers to (7) & (8) are no, has the facility closed the impoundment and provided post-closure care as a landfill (265.228c)?			
10.	Is an ignitable or reactive waste treated, or mixed before or immediately after placement in an impoundment so that the resulting waste no longer meets the definition of ignitability or reactivity (265.229a.1)?			
11.	Does the facility take precautions to ensure that incompatible wastes and materials are not placed in the same impoundment (265.230)?			

#### XIII. Waste Piles: (Part 265 Subpart L)

		163	140	CARRIETICS
1.	Are waste piles covered or protected from dispersal by wind (265.251)?			
2.	Is a representative sample of waste from each incoming movement analyzed to determine its compatibility with other waste in the pile (265.252)?	_		
3.	For waste piles where the leachate or run-off from the pile is a H.W.:			
а.	Is the pile placed on an impermeable base that is compatible with the waste; run-on is diverted away from the pile; leachate and run-off is collected and managed as a H.W. (265.253a)? -or-			
b.	The pile is protected from precipitat			
	ion and run-on (265.253b.1)? -and-			
c.	No liquids or wastes containing free liquids are placed in the pile (265.253b.2)?			
4.	For facilities that add ignitable or reactive wastes to an existing pile, can the following be demonstrated:			
a.	The resulting waste mixture no longer meets the definition of ignitable or reactive waste and the mixing will not cause an uncontrolled reaction (265.256a.1)?		,	
b.	The waste is protected from materials or conditions that might cause them to ignite or react (265.256a.2)?			
5.	Does the facility take precautions to ensure that incompatible wastes and materials are not placed in the same waste pile (265.257a)?			
6.	Are piles of H.W. that are incompatible with materials stored nearby separated by suffecient distance or protected by some structural device e.g., dike, wall or berm (265.257b)?	_		
7.	Are H.W. not placed on the same area where incompatible wastes were previously piled (265.257c)?			

#### XIV. Land Treatment: (Part 265 Subpart M)

		Yes	No_	Comments
(A)	General Operating Requirements:			
1.	Is treated H.W. capable of biological or chemical degradation (265,272a)?	<b>.</b>		
	List H.W. placed in land treatment unit.			
2.	Is run-on control system designed, constructed, operated, and main-tained to keep flow off the active portions of the facility during peak discharge from at least a 25-year storm (265.272b)?			
3.	Is run-off management system designed constructed, operated, and maintained to collect and control water volume at least equivalent to a 24-hour, 25-year storm (265.272c)?	f	<u> </u>	- <del>-</del>
4.	Are collection and holding facilities associated with run-on and run-off control systems managed to maintain design capacity of system (265,272d)?			
5.	Is the treatment zone managed to control wind dispersal (265.272e)?			
(B)	Waste Analysis:			
1.	Before placing H.W. in or on a land treatment unit, has the facility determined the following:			
a.	Concentrations in the waste of any substance that cause a waste to exhibit the EP toxicity characteristic (265.273a)?			
b.	For any waste listed in Part 261, Subpart D, the concentration of any substance which caused the waste to be listed as a H.W. (265.273b)?			
<b>c.</b>	If food chain crops are grown, the concentrations in the waste of As, Cd, Pb, & Hg, unless written, documented data shows that the constituent is not present (265.273c)?			

#### XIV. Land Treatment: - Continued (Part 265 Subpart M)

		Yes	NO_	Comments
(C)	Unsaturated Zone Monitoring:			
1.	Does the facility have an unsaturated zone monitoring plan (265.278a)?	<u></u>		
2.	Has the facility implemented the plan (265.278a)?			
3.	Is the plan designed to detect vertical migration of H.W. and H.W constituents under active portions of the land treatment unit (265.278a.1)?	·		
4.	Is the plan designed to provide information on the background concentrations of H.W. and H.W. constituents in similar but untreated soils nearby (265.278a.2)?			
5.	Is background monitoring conducted before or in conjunction with monitoring required in 265.278a.1 (265.278a.2)?			
6.	Does the plan include, at a minimum:			•
a.	Soil-monitoring using soil cores (265.278b.1)?		_	
b.	Soil-pore water monitoring using devices such as lysimeters (265.278b.2)?			
7.	Has the facility demonstrated the following in their plan:			
a.	The depth at which soil and soil- pore water samples are to be taken is below the depth to which the waste is incorportated into the soil (265.278c.1)?			
b.	The number of soil and soil-pore water samples to be taken is based on the variability of the H.W. constituents in the waste and the soil type(s) (265.278c.2)?			
<b>c.</b>	The frequency and timing of soil and soil-pore water sampling is based on the frequency, time, and rate of waste application, proximity to ground-water, and soil permeability (265.278c.3)?		-	

#### XIV. <u>Land Treatment</u>: - Continued (Part 265 Subpart M)

		<u>Yes</u>	No_	Comments
8.	Is the plan and the rationale used in developing this plan kept at the facility (265,278d)?			
9.	Does the facility analyze the soil and soil-pore water samples for the H.W. constituents that were found in the waste during the waste analysis (265.278e)?			
(D)	Recordkeeping:	•		
1.	Are records kept regarding application dates and rates, quantities, and locations of all H.W. placed in the land treatment unit (265.279)?			
(E)	Closure and Post-Closure:			
1.	Does the closure plan and post- closure plan address the following objectives and indicate how they will be achieved:			·
а.	Control of migration of H.W. and H.W constituents from the treatment zone into the ground-water (265.280a.1)?			
b.	Control of the release of contaminated run-off from the unit into surface water (265.280a.2)?		<u> </u>	
c.	Control of the release of airborne particulate contaminants caused by wind erosion (265.280a.3)?			
d.	Compliance with 265.276 (growth of food chain crops) (265.280a.4)?		_	
2.	Were the following factors considere in addressing the closure and post- closure care objectives:	d		
a.	Type and amount of H.W. and H.W. constituents applied to the land treatment unit (265.280b.1)?			
ν.	Mobility and expected rate of migration of H.W. and H.W. constituents (265.280b.2)?			

# XIV. Land Treatment: - Continued (Part 265 Subpart M)

		<u>Yes</u>	NO NO	Comments
c.	Site location, topography, and surrounding land use with respect to the potential effects of pollutant migration (e.g., proximity to ground water, surface water and drinking water sources) (265.280b.3)?			
d.	Climate, including amount, frequency & pH of precipitation (265.280b.4)?			
е.	Geological and soil profiles; surface & subsurface hydrology of the site; soil characteristics, including cation exchange capacity, total organic carbon, and pH (265.280b.5)?			
f.	Unsaturated zone monitoring information (265.280b.6)?		<del></del>	
g.	Type, concentration, and depth of migration of H.W. constituents in the soil as compared to their background concentrations (265.280b.7)?			
3.	Were the following methods considered in addressing the closure and post- closure care objectives:	3		
а.	Removal of contaminated soil (265.280c.1)?		_	
b.	Placement of final cover, considering: (265.280c.2)			
	Functions of cover (e.g., infiltration control, erosion and run-off control, and wind erosion control?	<del></del>		
	Characteristics of the cover, in- cluding material, final surface con- tours, thickness, porosity and perm- eability, slope, length of run of slope and type of vegetation on the cover?			
4.	Does the closure plan provide for the following during the closure period:	е		
a.	Continuation of the unsaturated zone monitoring program (soil-pore liquid monitoring may be terminated 90 days after last application of waste (265.280d.1)?			

### XIV. Land Treatment: - Continued (Part 265 Subpart M)

		Yes	No	Comments
b.	Maintenance of run-on control system (265.280d.2)?			
c.	Maintenance of run-off management system (265,280d.3)?	_		
d.	Controlling wind dispersal of H.W. (265.280d.4)?			
е.	Closure certification by both owner or operator and an independent qualified soil scientist (265.280e)?			
5.	Does the post-closure plan provide for the following during the post- closure care period:			
a.	Continuation of the soil-core monit- oring program (265.280f.1)?			
b.	Restriction of access to the unit as appropriate (265.280f.2)?			
c.	Assurance of compliance with 265.276 (food chain crops) (265.280f.3)?			
_ <b>d</b> •	Controlling wind dispersal of H.W. (265.280f.4)?			
(F)	Requirements For Ignitable Or Reactive Waste:			•
1.	Are ignitable or reactive wastes immediately incorporated into the soil so that either:			
a.	The resulting waste mixture no longe meets the definition of ignitable or reactive waste (265.281a.1); and Section 265.17b is complied with (265.281a.2)? or	r —		
b.	The waste is managed in such a way that it is protected from conditions which may cause it to ignite or react (265.28lb)?			
(G)	Requirements For Incompatible Wastes	:		
••	Does the facility ensure that incompatible wastes are not placed i the same unit (265.282)?	n		

#### XV. <u>Landfills</u>: (Part 265 Subpart N)

		Yes	<u>No</u>	Comments
(A)	General Operating Requirements:			•
1.	Is the run-on control system capable of preventing flow onto active portions during peak discharge from a 25-year storm (265.302a)?			
2.	Is the run-off management system capable of collecting and controlling the water volume resulting from a 24-hour, 25-year storm (265,302b)?		_	
3.	After storms are the run-on and run-off control systems returned to their design capacities (265.302c)?			
4.	Are H.W. managed to prevent wind dispersal (265.302d)?		_	
В)	Surveying And Recordkeeping:		•	
1.	Does the facility maintain the following items in the operating record:			·
a.	On a map, the exact location, dimensions and depth of each cell with respect to permanently surveyed benchmarks (265.309a)?			
b.	The contents of each cell and the location of each H.W. type within each cell (265.309b)?			
(C)	Closure and Post-Closure:			
1.	Has a final cover been placed over the landfill and does the closure plan specify the function and design of the final cover (265.310a)?		_	

# XV. Landfills: - Continued (Part 265 Subpart N)

		<u>Yes</u>	No_	Comments
2.	Does the closure and post-closure plans address the following objectives and indicate how they will be achieved: (265.310b)			
a.	Control of pollutant migration from the facility via ground-water, surface water, and air (265.310b.1)?			
b.	Control of surface water infiltration including prevention of pooling (265.310b.2)?			
c.	Prevention of erosion (265.310b.3)?			
3.	Are the following factors addressed with respect to the objectives stated in § 265.310b:			
a.	Type and amount of H.W. and H.W. constituents in the landfill (265.310c.1)?			
b.	The mobility and expected rate of migration of H.W. and H.W. constituents (265.310c.2)?			
c.	Site location, topography, and surrounding land use, with respect to the potential effects of polluttant migration (e.g., proximity to ground-water, surface water, and drinking water sources.)(265.310c.3)	?		
đ.	Climate, including amount, frequency and pH of precipitation (265.310c.4)			
е.	Characteristics of the cover including type of material, source, final surface contours, thickness, porosity, permeability, slope, length of run of slope, and type of vegetation on the cover (265.310c.5)?			
∖f.	Geological and soil profiles and surface and subsurface hydrology of the site (265.310c.6)?			

# XV. Landfills: - Continued (Part 265 Subpart N)

		Yes	No	Comments
4.	During the post-closure care period does, the facility:			
a.	Maintain the function and integrity of the final cover (265.310d.1)?			
b.	Maintain and monitor the leachate collection, removal, and treatment system to prevent excess accumulation of leachate in the system (265.310d.2)?			
c.	Maintain and monitor the gas collection system to control the vertical and horizontal escape of gases (265.310d.3)?	· 		
d.	Protect and maintain surveyed benchmarks (265.310d.4)?			
е.	Restrict access to the landfill (265.310d.5)?			
(D)	Requirements For Ignitable Or Reactive Wastes:			
1.	Are ignitable or reactive wastes treated, rendered, or mixed before or immediately after placement in the landfill so that the resulting waste mixture does not:			
a.	Exhibit the characteristics of ignitability or reactivity (265.312a.1)?			·
b.	Generate extreme heat or pressure, fire or explosion, or violent reaction; produce uncontrolled toxic or flammable air emissions; damage the liner; threaten human health and the environment (265.312a.2)?			

#### XV. <u>Landfills</u>: - Continued (Part 265 Subpart N)

		<u>Yes</u>	<u>No</u>	Comments
(E)	Requirements For Ignitable Wastes Disposed Of In Containers: (265.312b	)		
1.	Are wastes protected from materials or conditions which may cause them to ignite?			
2.	Are wastes disposed of in non-leaking containers?	g 		
3.	Are wastes carefully handled and placed so as to avoid heat or sparks	?		<del> </del>
4.	Are wastes covered daily with soil?			
<b>5.</b>	Are wastes disposed in cells that do not contain other wastes which may generate heat and cause ignition?			
(F)	Requirements For Incompatible Wastes	:		
1.	Are incompatible wastes and material not placed in the same landfill cell (265.313)?			
(G)	Requirements For Liquid Wastes:			
1.	For facilities that accept bulk liquid waste or waste containing free liquids, are the following requirements met:			
а.	The landfill has a liner and leachat collection and removal system as specified in § 264.30la (265.314a.1)			•
b.	Before disposal, the liquids are treated or stabilized, chemically or physically, so that free liquids are no longer present (265.314a.2)?			
2.	For facilities that accept liquids in containers, are the following requirements met prior to disposal:			
a.	All free-standing liquid is removed by decanting (265.314b.1)?			

#### XV. Landfills: - Continued (Part 265 Subpart N)

		ies	NO.	Commencs
b.	All free-standing liquid is eliminated by mixing with absorbent or solidification (265.314b.1)?	_		
(an	ontainers that are very small apules); are designed to hold free quids (batteries); or are lab packs a not subject to these restrictions)			
(H)	Requirements For Containers:			
1.	Are empty containers crushed flat, shredded, or similarly reduced in volume before they are buried in the landfill (265.315a)?			
(I)	Requirements For Disposal Of Lab Packs In Overpacked Drums:			
1.	Do lab packs placed in the landfill meet the following requirements: (265.316)			
a.	Lab packs are non-leaking?			
	Lab packs are compatible with waste?			
	Lab packs are securely sealed?			
	Lab packs comply with DOT specs?			
e.	Lab packs are overpacked in open			
£	head DOT spec drum 110 G or less? Suffecient quantity of aborbent	_		
۲.	material has been placed in drum		•	
	to completely absorb all liquid			
	contents of lab packs?			
g.	Drum is full after packing with			
_	lab packs and absorbent?		—	
11.	Absorbent material is compatible with waste?			
i.	Incompatible wastes are not placed			
	in same drum?			
j.	Reactive wastes, other than cyanide-			
	or sulfide-bearing wastes are treate	d		
	or rendered non-reactive prior to			
	placement in lab packs?			

#### II. Contingency Plan for Waste Treatment Area

The proposed secondary containment structure, as described above and detailed on the attached plans, will have capacity to contain the combined total capacity of the two existing waste treatment tanks that it serves, or the capacity of the largest tank plus 8-inches of precipitation (100 year, 24 hour event). Normally the secondary containment structure will be maintained empty by pumping accumulated precipitation to the storm drainage system within 24 hours following each significant precipitation event.

In the event of a waste spill within the containment the following steps will be taken:

- 1. Notification If an emergency situation develops at the facility, the discoverer shall contact the emergency coordinator immediately. The emergency coordinator has complete authority to commit appropriate resource of the company in the event of an emergency. Upon assessing the situation, the emergency coordinator shall activate the facilities emergency resources and personnel as necessary, and shall request outside assistance if necessary. In all cases involving or threatening offsite migration or threatening public safety, the emergency coordinator shall notify the California Office of Emergency Services. The O.E.S. and other emergency telephone numbers are presented in Table 1.
- 2. <u>Source</u> The source of the spill will be determined and, if possible, further spilling will be stopped, and, if feasible, the cause of the leak will be remedied.

#### **Woodward-Clyde Consultants**

- 3. Analysis and In-House Control The spilled waste will be analyzed to determine if it may be discharged to the sewer system, as is normally done with treated waste. If acceptable for discharge, the spilled waste will be pumped to the sewer inlet sump. If not acceptable for direct discharge, and treatment in situ is feasible, the waste will be treated, as appropriate, to satisfy the discharge requirements, and then discharged to the sewer system. Alternatively, if either or both of the existing waste treatment tanks are serviceable the waste will be pumped into the tank or tanks, as and when capacity is available, treated in the tanks and discharged in accordance with normal practice.
- 4. Off-Site Disposal If the spilled waste cannot be directly discharged, or treated and then discharged, the O'Brien Corporation will engage a hazardous waste disposal firm (IT Corporation or Chemical Waste Management, Inc.) to pick up the waste in tank trucks and to haul it to their disposal facility. The waste will be manifested, as required.

- 5. Maximum Holding Time In no case will spilled wastes be permitted to remain in the secondary containment structure for more than seven consecutive days.
- 6. Structure Clean-up After emptying, the secondary containment structure will be cleaned by washing with high pressure water jets. The water used for the purpose will be disposed by the same procedure as the spilled waste and as described in the preceding steps. After cleaning, wipe samples will be taken from the walls and floor of the containment structure and analyzed to document the effectiveness of the clean up operation.

#### Woodward-Clyde Consultants

7. Remedy of Cause of Spill - If the cause of the spilled waste was not remedied in Step 2 above then it will be remedied after the secondary containment structure has been cleaned. This may involve tank or pipeline repair or replacement. If replacement is required, the removed tank or pipeline will be cleaned by washing with high pressure water jets. Cleaning will be done within the secondary containment structure. The water used for the cleaning will be disposed by the same procedure as the spilled waste and as described in Steps 3 through 6 above. After cleaning the replaced materials will be disposed as non-hazardous scrap.

#### III. Closure Plans

The proposed closure plan is attached.

#### IV. Groundwater Monitoring

A groundwater monitoring program was prescribed by the Regional Water Quality Control Board in their letter of June 4, 1984 (copy attached). The prescribed program has been instituted, and the first quarterly report on the results of the monitoring will be submitted in August 1984.

#### SPILL PREVENTION

The Spill Prevention Control and Countermeasure Plan calls for complete secondary containment of all oil and oil-based or solvent-based product bulk storage areas in accordance with EPA's regulations attached herewith in Appendix A. The containment design and containment volumes are shown for each such area on pages 13-19. The maximum 24-hour storm of record is 4.58 inches; for containment design purposes, a design storm intensity of 6" per 24 hours was selected.

All storage tanks are steel or aluminum. Tanks and containment structures should be visually inspected on a weekly basis with corrective action immediately taken as necessary. The handles from all outlet spigots should be removed and the outlets kept normally closed. These outlets should be opened to drain stormwater only. When water is released, it should be examined first for sheens or other evidence of contamination, which must be removed prior to release.

Tanker off-loading is done by plant employees familiar with the safe-guards provided for spill control. These employees receive monthly training on equipment and actions to be taken in the event of a spill.

The Plant Engineer is responsible for spill prevention. Inspection of storage tanks and containment structures is carried out by the maintenance staff, which is also trained as the primary spill response team.

#### COUNTERMEASURE PLAN

It is not economically feasible to provide secondary containment or diversionary structures for the entire facility as protection against pipeline failures, process spills, or

drum breakage. The protection necessary for spill containment could be provided in these area of operation, but the necessary reserve for runoff would involve containing the flow from the entire site plus a large area outside the site. Additionally, relocation of drum storage areas is not poperationally feasible.

A limited degree of protection is offered by the plant layout itself. The main plant site has a slope of less than 2 percent so that a small spill, as would be anticipated, would not flow off-site unless it occurred at the edge of the site. To control this possibility, the curb was constructed around Area E and new curbs should be constructed along the south edge of pavement immediate to the creek that runs along the south boundary line. All active catch basins should be protected to stop spills from entering the sewer systems, as shown on Drawing No. 1 (Proposed SPCCP).

An oil spill contingency plan is available at the Plant Engineer's Office (see Appendix B) for the cleanup of onsite spills. The Plant Engineer is responsible for implementation of the plan. While the maintenance staff serves as the primary cleanup team, all managers are briefed at monthly meetings on oil spill response procedures and are expected to brief their employees.

The response to an oil spill is as follows:

- (1) Stop or deter the flow if possible.
- (2) Notify the Plant Engineer.
- (3) Resume measures to curtail flow.
- (4) Response team controls and cleans up.

To facilitate the response, absorbent materials are located in marked boxes throughout the plant area, and a special mobile unit is always ready for an emergency.

#### THE O'BRIEN SPILL CONTROL PLAN

Spills of Oil, Resins or Solvents, whether inside or outside of buildings, are considered to be a hazard to personnel; to O'Brien property and to the environment. For several years now we have engaged the services of the consulting firm of "RESCURCES ENGINEERING AND MANAGEMENT" to guide us in the containment of tank spills that might otherwise contaminate; (1) the South San Francisco sewer system, (2) the waters of San Francisco Bay of (3) the atmosphere. The O'Brien Corporation has implemented the numerous recommendations related to product containment by the construction of dikes, curbs, moats and perimeter walls. The Company has also established an employee Spill Control Team that can respond to spills by using the facilities of the Spill Cart, which contains a supply of shovels, foam containers and absorbent materials that can be utilized quickly to either contain or divert material spills. The five (5) Spill Team members are employees of the O'Brien Maintenance Department and the Spill Cart is maintained at that location.

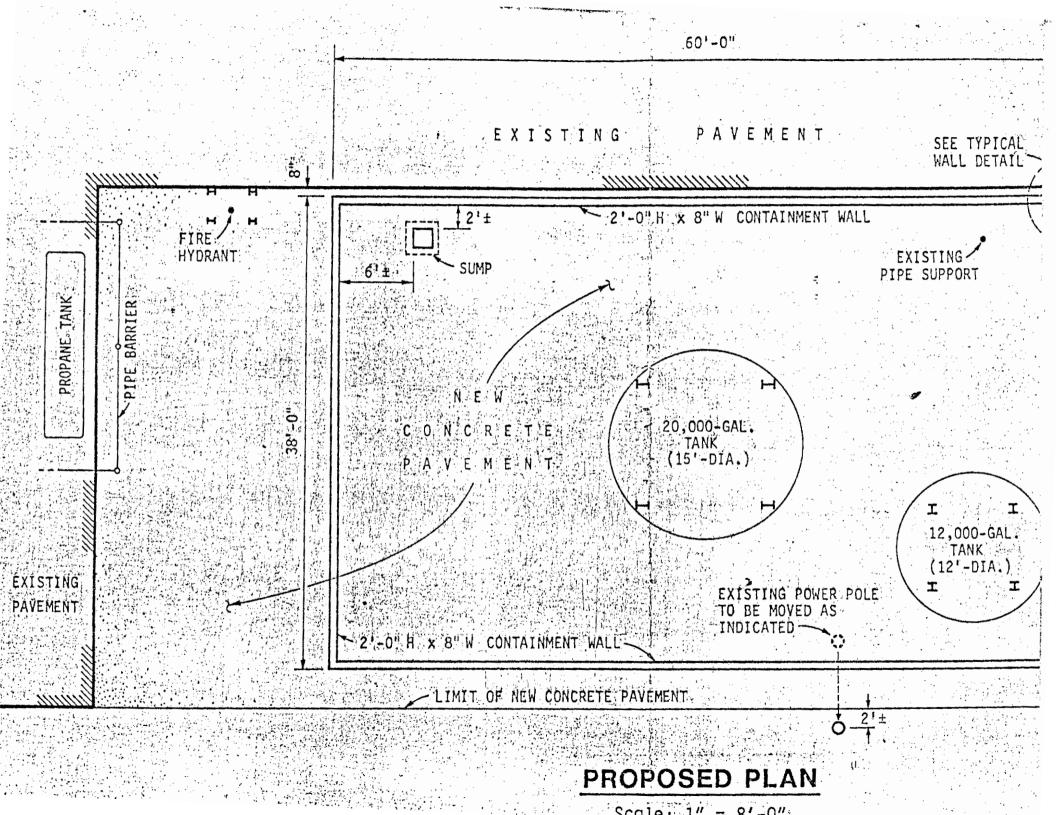
For spills that may occur inside of any of the paint manufacturing buildings, the Plant Engineer has established instructions named: "Standard Operating Procedures for Spills." These instructions are a guide to employees that may be called upon to contain or clean up paint or raw material spills. This is particularly helpful for the employees working at night, when there are only a few employees on hand. It is also a matter of importance from the standpoints of:

HEALTH HAZARD
FIRE HAZARD
ENVIRONMENTAL CONTAMINATION
PRODUCT CONTAMINATION

The Plant Engineer has formulated the following points that should be passed on to the various managers, supervisors, foremen and employees by posting on each floor of manufacturing buildings.

#### STANDARD OPERATING PROCEDURES FOR SPILLS

- 1. Stop the flow of oil, resin or solvent that has spilled.
- 2. Call for the Spill Cart if help is needed.
- 3. Spray foam on any flammable spill to reduce fire danger.
- 4. Contain or stop the spill from spreading.
- 5. Use a respirator when harmful fumes are present.
- 6. Use non-sparking shovels and brooms to pick up spilled material.
- 7. Put spill, or pump spill into container with water.
- 8. Remove the containers of spill and water from the building.
- 9. Report incident and cause to supervisor.
- 10. Supervisor will request equipment repair and replacement of foam.



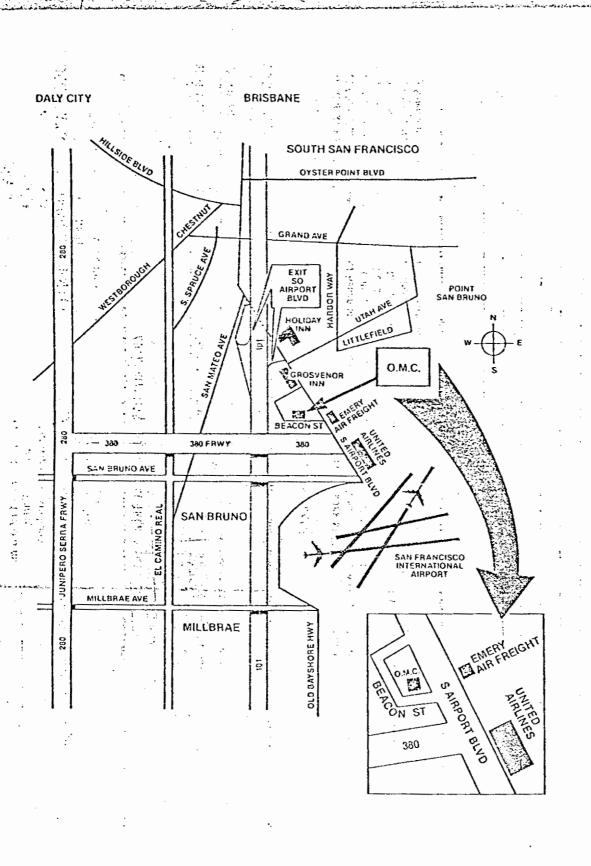
#### THE O'BRIEN CORPORATION

#### FIRST AID DIRECTORY

LOCATION	NAME	EXTENSION
General office	Valerie Stevenson	210
Lab/Purchasing	Ed Kevin	<b>2</b> 92
IPF/LAB/Purchasing	Gloria Sandoval	345
Depot	Denise Gaynor	340
Trade Sls.Factory/Shop/Syn.Resin	Wayne Dailey	410
Trade Sls.Factory/Syn.Resin .	R. Mosqueda	Trade Sales Factory
Swing Shift	Gus Ramon	Swing Shift

#### C P R DIRECTORY

Shop	Mike Burdine Paul Kuehne	367 369
Trade Sales Factory	Jim Dawson Lanny Matson	385 386
Synthetic Resin	Ron Thimsen	372
Industrial Products Factory	Jerry Roach C. T. Howell	<b>391</b> <b>3</b> 98
Swing	Steve Moniz John Wiley	Swing
General Office	Debbie Quirarte	<b>2</b> 61
Depot Swing	Debbie Quirarte Lou Tessier	266 Swing
Guard - Gate	Leo Wall	366
Guard - Gate	Rert Fanin	402







# ARTMENT

in alarm at the nearest box.

I, telephone operator.

In alarm at the nearest box.

In alarm at the nearest box.

ALARM NUMBER	Bidg. Number	Riser Number	A.D.T. Code No.	Location of additional water source
34 MANUAL PULL-BOXES ON WEST WALL DEPOT	72			West of Bldg. 20 South of Bldg. 72 South of Bldg. 79
36 INDUSTRIAL PRODUCTS FACTORY	20-21	24 25 26 27 28	71	South of Bldg. 72 South of Bldg. 10 Outside Main Gate
<b>41</b> FORKLIFT GARAGE FIRE TRUCK HOUSE	<b>75-7</b> 6	Unprotected by Automatic Sprinklers		West of Bldg. 75 East of Bldg. 33 South of Bldg. 79

# FIRE DEP

# When a fire is discovered, rin If alarm does not soun Be specific regard

ALARM NUMBER	Bldg. Number	Riser Number	A.D.T. Code No.	Location of additional water source
14 T.S. PACKING — OFFICE-STORAGE SHIPPING	62-63 64-65 66	4 5 7	12	North of Bldg. 31 North of Bldg. 65 West of Bldg. 75
15 T.S. TINTING—FILLING	31-32	3 4A	13	North of Bidg. 31 West of Bidg. 60
16 T.S. GRINDING	30	2	15	North of Bldg. 31 West of Bldg. 60
17 GENERAL — LABORATORY	10	1	26	Outside Main Gate West of Bldg. 60

#### SAFETY - FOREMAN'S CHECK LIST FOR EMPLOYEES

(To be reviewed annually and maintained in file)

<del> </del>	1.	Explain fire alarm system for particular work area and facility as a whole and explain fire drill procedure.
	2.	Explain our requirements for the use of safety equipment, what it is, how and when to use it and where it may be obtained, including safety shoes. (Tennis shoes are not to be worn.)
	3.	Explain use of Spill Control Cart every six months.
	4.	Explain regulations pertaining to smoking for employee in his/her department and for the plant as a whole.
	5.	Instruct employee in the proper way to lift.
	6.	Demonstrate safe way to operate any equipment or tools which the new employee will be called upon to use.
	7.	Show and explain to employee the location and use of emergency shower and eye wash station. Explain our procedure for reporting all injuries to his foreman or the Assistant to Plant Engineer and requests for aid.
	8.	Point out materials that are located in the department which have chemical properties that are combustible, explosive, corrosive or poisonous or irritant.
	9.	Explain use of Material Safety Data Sheet code book and location.
	10.	Explain spontaneous combustion hazards of dirty sawdust and rags. Show employee where rags are to be placed after use.
	11.	Point out department locations for trash and rubbish disposal.
	12.	Explain that no repairs are to be made to any machine or equipment. (Lock-out procedure)
	13.	Warn employee of slipping hazards that may exist or occur in plant. Emphasize need for individual attention to maintain a clean work area and to store tools and equipment properly.
	14.	Cover in detail safety procedures for entering any tank. No employee is to enter any tank without the approval of the department foreman, who is responsible for the safe entry condition of the tank.
	15.	Explain any unique safety requirements of the individual's work or work area.
<del></del>	16.	Explain the purpose and maintenance of the Hazardous Waste Storage

in	·····	Department, on	
		Donoutront	
The for	egoin	g safety check off was covered	with
	_21.	Explain weekly inspection repo	rt.
	_20.	Explain Call-In procedure.	
	_19.	Explain procedure for notifying the assigned work area.	g foreman when the employee leaves
	_18.	Explain the handling of sludge	from treatment tank.
		Explain water treatment proced	

#### ALARM EVACUATION PROCEDURE

At the sound of any fire alarm signal, the janitorial crew and forklift drivers will assemble outside of the forklift garage. (See attached map.)

Forklift driver, if on lift truck when fire alarm sounds, pull to side of roadway. Stop engine and set brakes. Walk to designated assembly area.

All time cards will be pulled from the "IN" rack and carried to the assembly area for use in taking roll call. This responsibility is assigned to the Assistant to the Plant Engineer. The purpose of this exercise is to insure that everyone is accounted for.

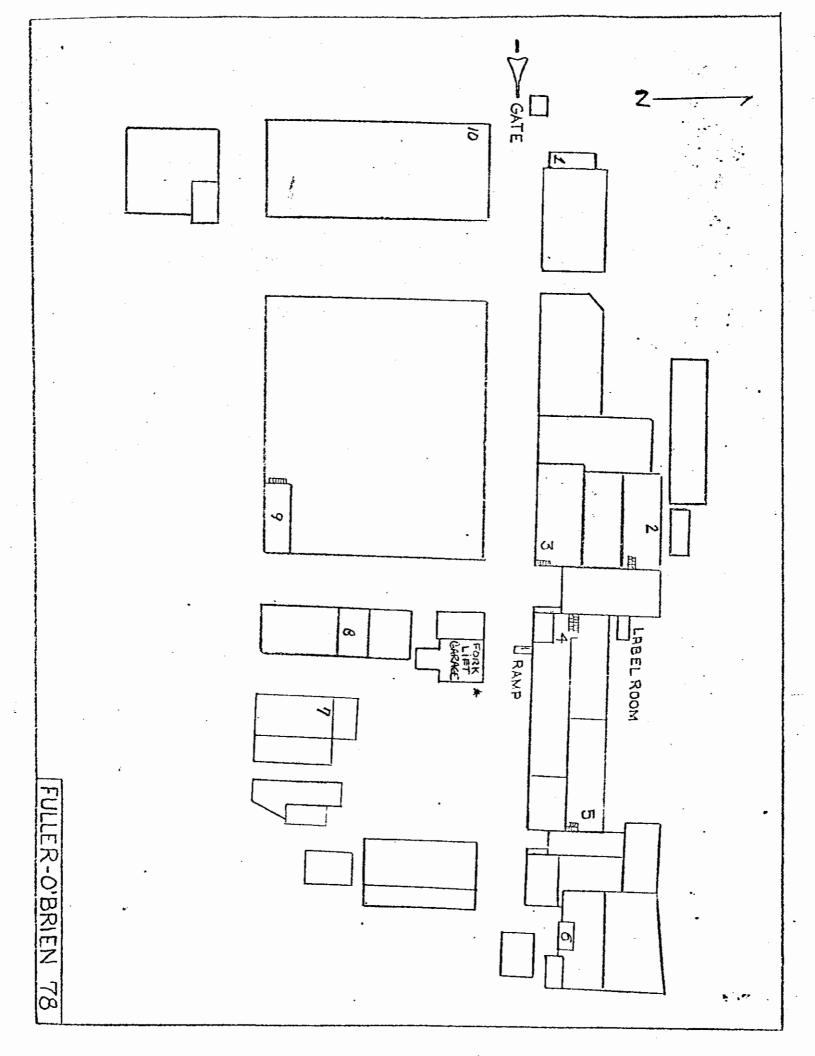
Each employee is asked to turn off the equipment he or she is working with and proceed to assembly area.

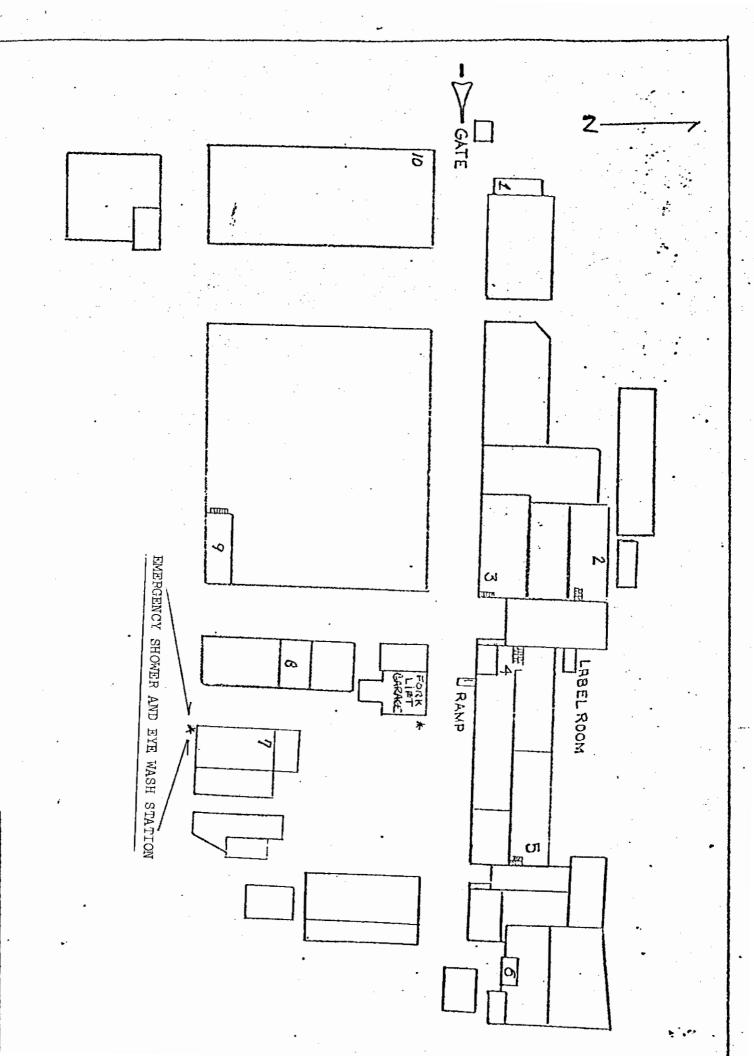
Copy of fire alarm numbers is attached.

#### FIRE BRIGADE MEMBERS

Report for duty as indicated by alarm code.

NO EMPLOYEE IS TO RETURN TO WORKING AREA UNTIL THE "ALL CLEAR" (ONE LONG BLAST) IS SOUNDED.





FULLER-O'BRIEN 78

#### SPILL CONTROL CART

#### INSTRUCTIONS

- 1. Key #2579 opens Spill Control Cart room. It is on the Foreman's key ring. Another key is located in the Foreman's desk.
- 2. Spill Control Cart is located behind Building #96.
- 3. Hook up Spill Control Cart to large lift truck. (The lift truck Ralph uses.)
- 4. Haul Spill Control Cart to spill area.
- Wear protective clothing provided on Spill Control Cart. (Rubber boots, gloves, masks, etc.)
- 6. Contain spill by damming with absorbant material. Be sure to prevent spill from getting into sewer drains.
- 7. If spill is flammable use fire extinguishers and spread foam over spill.
- 8. Clean-up spill. Put material into drums. Seal and lock-up drums.
- 9. Mark drums according to type of spill. (Latex, Oil, or Corrosive)
- 10. Take drums to hazardous waste area.
- 11. Clean equipment used and return to proper area on Spill Control Cart.
- 12. Return Spill Control Cart to room. Re-stock with necessary material or protective equipment, etc.
- 13. Lock Spill Control room.
- 14. Notify MANAGEMENT of the occurance and location of spill.

#### SPILL CONTROL

This is to certify that I have been given instructions in the use of the SPILL CONTROL CART.

I have also recieved a set of instructions in the use of the SPILL CONTROL CART and how to clean up a spill.

NAME		DATE	
NAME		DATE	-
MAINE		. al Ad	
	•		
NAME		DATE	•
NAME		DATE	-
MANTE		DATE	
NAME		DATE	•
NAME		DATE	-
NAME		DATE	

#### RESPIRATORY PROTECTION

The following outline will indicate where respiratory protection must be utilized, according to type of weather outside, respiratory protection may or may not be necessary. Employees are additionally encourage to wear respirators, even if not required, whenever the individual desires.

3M #9900 (Yellow paper mask) for toxic dusts: Must be worn whenever opening, emptying, crushing or sweeping up lead or chromate pigments. These pigments will always have one of the following raw material code sequences: DQ-1XXX, DQ-6XXX, DY-1XXX or DY-6XXX. There is no exception to this rule.

3M #8710 (White paper mask) for dusts and mists: Must be worn whenever opening, emptying, crushing or sweeping up dry pigments other than those toxic ones mentioned above.

3M #8712 (Black rubber mask) for organic vapors: Must be worn while high speed dispersing pigment into solvent based products in leu of the 3M #8710 paper mask. Must be worn whenever solvent is free-fall transferred between vessels. Must be worn when solvent washing equipment.

3M #8727 (Green rubber mask) for amine, ammonia vapors: Must be worn while drawing, measuring, carrying or adding CN-1003 ammonia for/to any batch.

Must be worn when cleaning up any spill of CN-1003 ammonia. There is no exception to this rule.

3M #8710 may not be necessary when working outside when there is not much wind.

3M #8712 may not be necessary outside when there is enough wind to keep fumes away from employee.

Please understand that, effective immediately, the use of respiratory protection in the previously described operations is no longer optional except as noted.

I have read and understand this policy.

Signature	 	 		
Data	 	 -	<b>-</b> -	

#### OPERATION AND SAFETY PROCEDURES FOR LANDA PRESSURE WASHER

The following steps must be taken in sequence when operating the Pressure Washer.

- Connect pump feed hose to water outlet (Make sure you are hooked up to water, thinner will ruin the machine. Water outlets are painted blue).
- Plug electrical cord into appropriate electrical receptacle. (Keep electrical cord rolled up so not to have too much on the ground.)
- Check oil site glass for proper oil level if oil is needed see your supervisor.
- 4. Connect all quick lock wands and nozzles needed to gun for job. (Never attempt to change a wand or nozzle when pump is running.)
- Put on safety clothing full rain gear, boots and face shield for washing equipment or floors, for tank washing make sure you wear your safety glasses.
- 6. Turn on water to machine, pull handle on gun to make sure water is into the system and to bleed the air out.
- 7. Turn on motor and start cleaning.
- 8. When completed with job, follow the above instructions in reverse order to shut down system.

No one must operate this equipment without being trained on it's use. If you have any questions on this machine, see your supervisor before operating it. Before anyone operates this machine he must read and understand the proper use of it and sign this memo that he has been trained; and must be co-signed by his supervisor that he has received such training.

Employee	Signature	·
Supervis	ory Signatur	`e

\* See attached for Safety Precautions, memo of November 16, 1983.

ALL TRADE SALES EMPLOYEES

DISTRIBUTION:

cc: M. Burdine - 11

E. P. Daly - 00

J. Dawson - 05

L. Carter - 05

FROM

R. Salvi - 05

LOCATION South San Francisco

DATE November 16, 1983

SUBJECT .

#### LANDA HIGH PRESSURE WATER SPRAYER

We have recently installed a Landa High Pressure Water Sprayer to be used for tank washing. The system works on extremely high water pressure, approximately 3000 PSI, and will require certain safety considerations.

First, and most important: NEVER aim the sprayer towards someone. The power of this equipment could cause very serious bodily damage. For this reason, anyone caught using the spray gun in any form of horseplay will be subject to immediate termination.

When using high lifts in the area where the sprayer is being used, be extremely careful not to run over the hoses. Again, because of the high pressure, serious injury could occur if the hose were cut.

No one is to use the sprayer without first being trained in the proper procedures.

Safety glasses must be worn when using the sprayer.

Never put your finger or hand in front of the nozzle.

Hold the spray gun in a manner that will eliminate the possibility of accidentally directing the water stream towards your feet.

I expect full cooperation in the use and maintenance of this equipment and cannot emphasize strongly enough the safety precautions that must be taken when using this equipment.

#### WEEKLY INSPECTION REPORT

INSPECTOR	TIME	DATE
DO NOT PUT A CHECK MAR	( IN THE SPACES BELOW. IF OK WRITE	OK.
IF ANY REPAIRS ARE MAD	E NOTE THEM BELOW AND DATE REPAIR M	ADE.
1. CHECK TRE	ATMENT TANK FOR ANY STRUCTURAL DAMA	GE.
2. CHECK 1 H	ATCH COVER ON 10,000 GALLON TANK FO	DR LEAKS.
3. CHECK 2 H	ATCH COVERS ON 20,000 GALLON TANK F	OR LEAKS.
	VALVES AND STEMS FOR LEAKS ON TREAT	
	ALVES AND STEMS FOR LEAKS ON 10,000	
	DITION OF NFPA WARNING SIGNS ON 10,	000 AND 20,000
GALLON TA		MANUE HOD THANG
· · · · · · · · · · · · · · · · · · ·	VERHEAD LINES GOING INTO TREATMENT	,
	VERHEAD VALVES AND STEMS FOR LEAKS.	
	P PUMP FOR PROPER OPERATION. P PUMP FOR ANY LEAKS IN VALVES OR I	TNEC
	EBOARD ON SOLAR PONDS.	IIIID.
	ES ON SPILL CONTROL CART.	
	LASH LIGHTS FOR PROPER OPERATION ON	I SPILL CONTROL
CART.	agon distribution of the control of	. 211111 001,11.01
	XTINGUISHERS FOR PROPER AIR LEVEL.	
	MINIMUM OF 10 BAGS OF ABSORBENT MA	TERIAL ARE ON
	TROL CART.	
16. CHECK SPI	LL CONTROL CART FOR MINIMUM OF 2 PU	JSH BROOMS,
3 SCRAPER	s, 3 shovels, 3 squeeges and 2 open	HEAD DRUMS.
	LL CONTROL CART FOR MINIMUM OF 10 I	
	LL CONTROL CART FOR MINIMUM OF 2 PA	AIRS OF WORK
	SETS OF PROTECTIVE CLOTHING.	
	DITION OF WARNING SIGNS IN DRUM STO	
	M STORAGE AREA FOR ANY LEAKING DRUM	
	INSURE THAT ALL SAFETY CHAINS IN DE	RUM STORAGE AREA
ARE IN PI		TIA CETTE TO CENODED
22. CHECK DAT	E OF WASTE DRUMS TO INSURE THAT NO	MADIE TO STOKED
	M IN DRUM STORAGE AREA THAT THERE I	IS NO BREACH IN
BERM.	A IN DIGH DIOMOD RIGH HIMI HIME	ED NO DIMPON TH
	RGENCY SHOWER AND EYE WASH STATION	TO INSURE THAT
	IS FREE OF ALL OBSTICLES.	
	A IN FRONT OF SPILE CONTROL CART RO	OOM TO INSURE THAT
	REE OF ALL OBSTICLES.	

NOTES AND COMMENTS:

#### WATER TREATMENT PROCEDURES

- 1. Close valve from trade sales factory to treatment tank.
- 2. Close valve from sump pump to treatment tank.
- 3. Close valve from sump pump to holding tank.
- 4. Open valve from trade sales factory to holding tank.
- 5. Open air valve on side of treatment tank and agitate treatment tank 5 minutes. Close air valve.
- 6. Take a sample of water to General Lab for pH reading.
- 7. pH needs to be from 5.5 to 9.5 and the water should be clear in order to release water thru sewer.
- 8. If water is too alkaline alum must be added. If water too acid caustic must be added.
- 9. In portable mixer fill with water from treatment tank to 1 inch above last blade. Turn air on to start agitation.
- 10. Add alum very slowly and mix until alum is completely dissolved. (Approximately 1 to 2 hours of agitation.)
- 11. Connect hose from portable mixer to sump pump. Open valve from sump pump to treatment tank. Close valve from trade sales factory to holding tank. Open valve under portable mixer and turn on sump pump. Pump alum mix into treatment tank. Add polymer to portable mixer. Rinse out portable mixer. Close all valves. Open valve from trade sales factory to holding tank.
- 12. Turn on air valve to treatment tank and agitate no more than 5 minutes.
- 13. It is best to make water treatment mix on Thursday or Friday so that the solids have more time to settle.
- 14. Take another water sample to General Lab for pH reading. If pH is within limits and water is clear, water may be released into sewer.
- 15. Inside sump is pipe going directly into sewer, put hose in pipe.
- 16. On top of treatment tank put hose into treatment tank. Start air pump. Then turn off air pump and water will pump out by free flow
- 17. If first mix does not correct pH step 7 thru 14 will have to be repeated.
- 18. If pH is within limits but water is not clear more polymer will need to be added and mix only 2 or 3 minutes max.
- 19. When water is ready to be released into sewer call So. City Water Quality Board and advise them how much water is being released. (877-8555)
- 20. Enter amount of water released on chart for treatment releases.
- 21. When sludge sediment reaches approximately 5,000 gallons, pump sludge into D.O.T. approved drums.

- 1. Read flow meter daily, which is located behind IPF in doorway.

  Add one zero to the end of meter figure. Post figure on daily flow chart. Calculate usuage and enter figure. Note any comments such as rain, treatment tank released, sewer blockage or whatever the case may be.
- 2. Clean probe, located inside sewer in parking lot, by wiping with shop rag. Replace probe in sewer.
- 3. On pH meter graph paper make notation probe cleaned, date and time.
- 4. Graph paper on pH meter will need to be replaced approximately once a month.
- 5. Every Monday take sewer sample from 5 gallon plastic container inside refrigerator at sewer sampler. Empty remaining water in 5 gallon plastic container and replace for metered water collection.
- 6. Mark sewer sample: sewer sample, date and time. Take sample to General Lab for analysis. Pickup sewer sample from General Lab usually next day and store sample.
- 7. Four or five days before the end of month switch sewer sampler from meter to timer. Set minutes from 5 to 1 minute. This will alow you to collect more water for 5 gallon sample So. City Water Quality Board will pickup.
- 8. Pickup 1-5 gallon pail and 1screw cap lid. Pop out seal under screw cap. Attach lid to pail. Pour sewer water collected from 5 gallon plastic container into 5 gallon pail. Place sample in refrigerator located in shop. Notify Paul Kuehne sample is ready for pickup.
- 9. If alarm goes off on pH meter push red button that is located next to flow meter to stop alarm.
- 10. Check and clean probe and replace probe in sewer.
- 11. If alarm does not go off everything is o.k.
- 12. If alarm goes off again shut off alarm switch next to pH L.E.D. read out.
- 13. Check pH of sewer water with pH indicator paper. If pH normal calibrate pH meter. Make note of calibration of pH meter on graph paper.

Clean probe with sulfuric acid by letting probe sit in sulfuric acid 20 minutes. (CAUTION: Wear gloves)

Rest probe in pH water of 7 pH for 45 minutes to 1 hour. Move probe to water of 9 pH for 30 minutes. Move probe to water of 5 pH for 30 minutes.

If probe has read water correctly place probe back in sewer and turn alarm on.

If probe has not read pH waters correctly report malfunction.

14. If pH indicator paper shows water to be too acid or too alkaline check pH in sewer openings at IPF, Syn. Resins, Trade Sales, main street, behind shop and behind depot to locate possible dumping or spill of material. If you find anything abnormal in pH reading at any one paticular sewer opening notify factory immediately.

## THE O'BRIEN FIRE BRIGADE (Authorized and fully supported by top Management)

The O'Brien paint manufacturing facility in South San Francisco is composed of over 30 buildings spread over about 26 acres. For fire control of an area this large the Company must have specialized fire detection devices in addition to a band of fire fighting individuals who can gain some control of the situation before the South San Francisco Fire Department can arrive. The O'Brien Corporation utilizes the resources of the ADT Alarm and Sprinkler System which affords an automatic alarm if a sprinkler head is ruptured in any of the buildings or if any one of the 54 alarm boxes is activated. In both cases the alarm wil automatically cause the following things to happen:

- 1. The fire whistle will sound the alarm with a code that designates the location of the fire.
- The fire signal will inform ADT, who will immediately dispatch the South San Francisco Fire Department to the O'Brien facility without any additional effort on our part.
- 3. The O'Brien main gate on the west side of the property will open guickly and fully, allowing the city fire truck to enter.
- 4. The O'Brien fire pumps located in building 90 will autómatically start, giving us plenty of sprinkler system water at about 100# pressure.
- 5. The entire O'Brien Fire Brigade will be activated and the firemen and the company fire truck will proceed to the distressed building.
- 6. The O'Brien Fire Chief will survey the situation and decide if the O'Brien firemen should go inside the building to use the Foam Cart, the hose racks or the available portable extinguishers.
- 7. All O'Brien buildings will be evacuated by the employees according to the standard O'Brien exit plans that are located in each building, usually at the time clocks.
- 8. The O'Brien firemen will insure that all employees are safely outside of the distressed building and that the way is clear for arrival of the city fire department.

When there is a fire emergency the South San Francisco Fire Department will respond very promptly with a fire truck and an adequate number of trained and well equipped firemen. Thru the ADT alarm system the city fire department will get the signal almost as soon as we get it. Since the main gate will open automatically, the city fire truck will arrive in very short order, and we need to have people to control the employees that are evacuated from the buildings. This control is done by the O'Brien Fire Brigade.

The O'Brien Fire Brigade is mandated by management and is composed of employees chosen from a list of volunteers who have had training in Fire Prevention and Control. These employees were selected because of their knowledge of the plant and its operation. Since many of the buildings differ in operations conducted therein, and hazards that are likely to be encountered, the firemen in the brigade are chosen from the departments most likely to have fire problems. This gives the City fire department aid in assessing the severity of the fire upon arrival, in that they will know something of what is to be encountered and will know what equipment they will need for entering the building. The O'Brien Fire Brigade members are kept up to date on hazards by means of the training exercise, movies on fire dangers and control and by close association with the Fire Brigade Advisors of the Engineering Department.

Efficiency in Fire Prevention and Fire Fighting demands that every fireman be familiar with all the basic operations that are necessary in the handling of portable fire extinguishers, hose lines and other fire controlling equipment. The Brigade Fire Chief and the Advisors plan the agenda of the meetings to instruct or review the procedures for handling such equipment. The Brigade is primarily utilized in exterior fire fighting and in aiding the City Fire Department when they arrive. Each brigade member must know the locations of the following:

- 1. The 54 Fire Alarm boxes. A plant layout is attached.
- 2. The portable fire extinguishers and their condition.
- 3. The O'Brien Foam Carts and their uses. Photo attached.
- 4. The usual hazards in each of the plant sectors. This is accomplished by discussions between members of the different sectors or buildings.
- 5. The yellow fire hydrants and standpipes that are serviced by the city water system. Plant layout attached.
- 6. The red fire hydrants and the red sprinkler risers that are serviced by the O'Brien water system . Layout attached

The O'Brien Fire Brigade acts as a single unit. The Fire Chief and the firemen all go immediately to the fire area, with the first driver to the fire truck following. All know the building that has the fire by the code of the fire whistle.

An interior fire that cannot be promptly contained with portable fire extinguishers, hose racks or foam carts will set off an alarm that will cause evacuation of that building and other buildings as well. The Chief must make a decision concerning whether his men will enter this building and his decision may well be governed by what sort of building this happens to be. A small fire in an office waste basket is one thing while a fire in a building that houses open paint tanks of paint and storage of highly volatile solvents is quite another. The latter situation is one for the trained and equipped firemen of the City fire department. In such case the O'Brien Fire Brigade will aid the City fire department by pointing out locations of hazards, cutoff valves and escape routes. The Brigade Chief will remain in contact with the City Fire Chief and will have the Brigade firemen stationed so as to:

- 1. Insure that all O'Brien employees are out of the building
- Keep the gate clear of vehicles and keep all nonfire fighting personnel out of the way.

During times when there is no fire emergency the Brigade Firemen must be in contact with the Brigade Chief on matters of potential danger situations in order to fulfill their role in Fire Prevention. Matters that may affect safety must be related to the Chief, and in writing if possible, so that remedial action may be taken. Some of the things to be kept in mind are:

- 1. Fire hazards that need correcting.
- 2. Training with the fire truck and its hoses.
- 3. Safety measures to be observed during an emergency.
- 4. Announced and UNANNOUNCED fire drills.
- 5. Filing of Emergency Reports by the guards for night or weekend emergencies. Copy of such reports to be sent to Personnel Dept. by the guards.
- 6. Instructions to the guards regarding telephoning of key personnel for emergencies after working hours.

While the regularly scheduled meetings of the Fire Brigade take place each month, the Brigade Advisors will periodically meet with the Brigade for a training session and to decide upon outside training. There is available a State Certified Fire Service Instructor at the S.S.F.F.D. and the Advisor can schedule training sessions with this individual at least annually. In addition, contact can be made with the University of Nevada (Reno) Fire Academy for training tips on fires such as in the oil refinery industry (which is similar to what we have in the paint industry). In any event, all of the firemen in the O'Brien Fire Brigade must have training annually and the source of this training is for the Brigade Chief and the Advisor to determine, keeping in mind the fact that the O'Brien Fire Brigade will normally turn any interior fire fighting over to the professional City fire department which is located only about one mile from the O'Brien premises.

While outside instruction is very important, the training exercises that are done monthly can include the numerous training movies on fire fighting. These are available through our affiliation with Travelers Insurance and do well to augment the practical training sessions.

For a Brigade fire fighter to be most effective, he or she must be thoroughly familiar with what we have available on the premises for handling such emergencies. During regular training sessions the Chief will conduct tours through the facility to point out and discuss such things as:

- 1. Visual inspection of the yellow standpipes and hydrants that are serviced by city water.
- 2. Examination of the 30 red sprinkler risers, the cut-off valves and the sprinklers that they control, and the red hydrants that are fed by O'Brien sprinkler water.
- 3. Familiarization with the O'Brien fire truck and its equipment and the O'Brien Foam carts and hose racks inside the buildings, noting that the hose racks contain inch hose whereas the fire truck contains 2½ inch hose that will fit the hydrant connections.
- 4. Portable fire extinguishers, their locations, dates of servicing and classes of fires that they handle such as:

Class A---- Paper, Wood, trash-- water quenchable.
Class B---- Paint, oils, thinners--smothering action,

Class C--- Electrical -- non-conduction required.

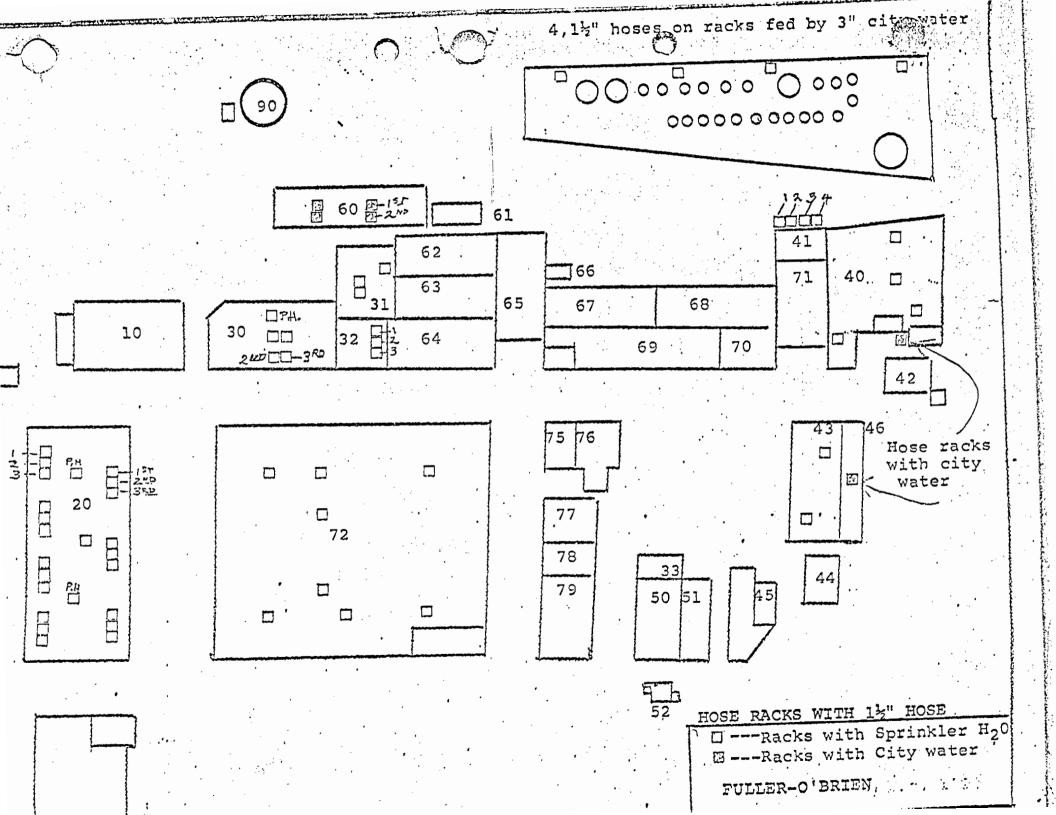
Class D--- Mebals--Such as magnesium, phosphorus.

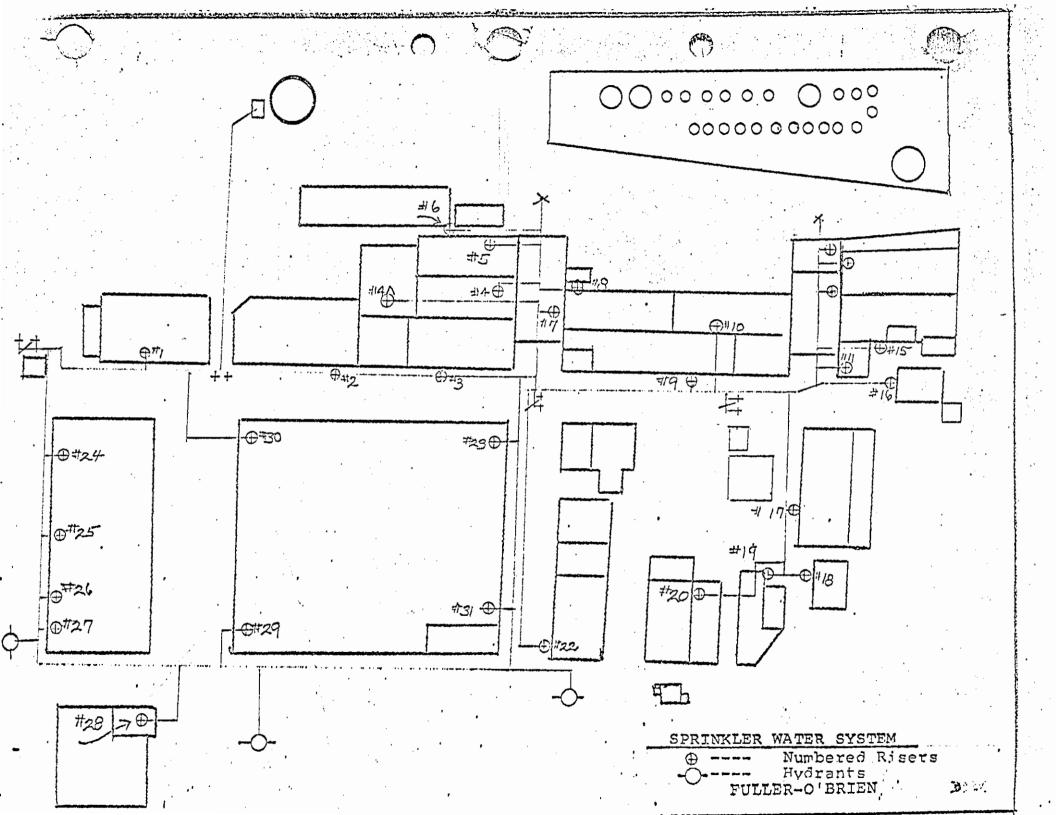
- 5. The date, time and place of the regular Fire Brigade meetings will be decided by the Chief and the Advisors. Each such meeting will result in a report being made on the standard meeting form with a copy going to the Personnel department and a copy being retained by the Chief (after review by the Advisor).
- 6. The Chief will make certain that all of the Brigade firemen understand the O'Brien fire alarm codes that designate the location of the fire.
- 7. The Advisor and the Chief will determine when and if the Brigade firemen will arrange for a fire demonstratio that will be handled by discharging portable extinguishe or hooking up fire hoses.
- 8. The Advisors will decide when the Brigade must have a fire drill and must arrange for advising ADT so that they will not respond with fire trucks.

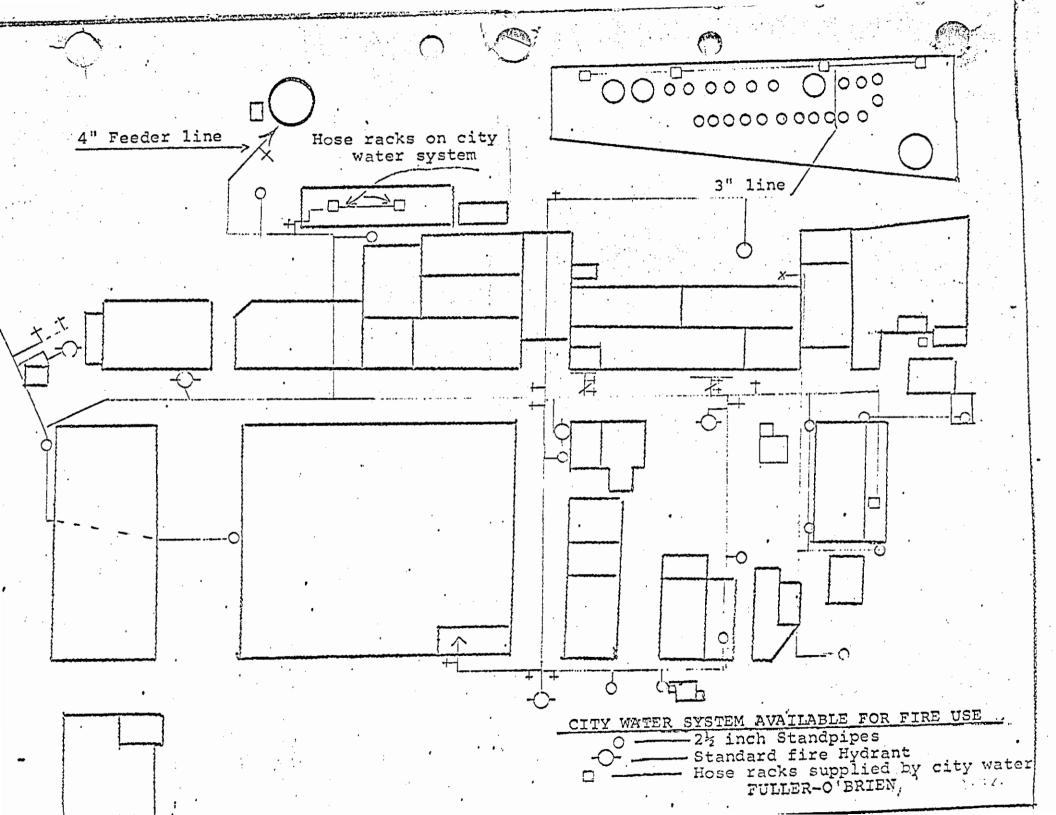
In conclusion, the O'Brien Fire Brigade is primarily interested in FIRE PREVENTION and part of that objective is accomplished by being alert for unsafe acts and reporting such acts to the Chief who will then report them to the Advisors for remedial action. It has often been said that Efficient Fire Prevention done properly could well make Fire Fighting non-existant. And this is the ultimate goal of the O'Brien Fire Brigade. It could save the lives of some employees and the jobs of all employees.

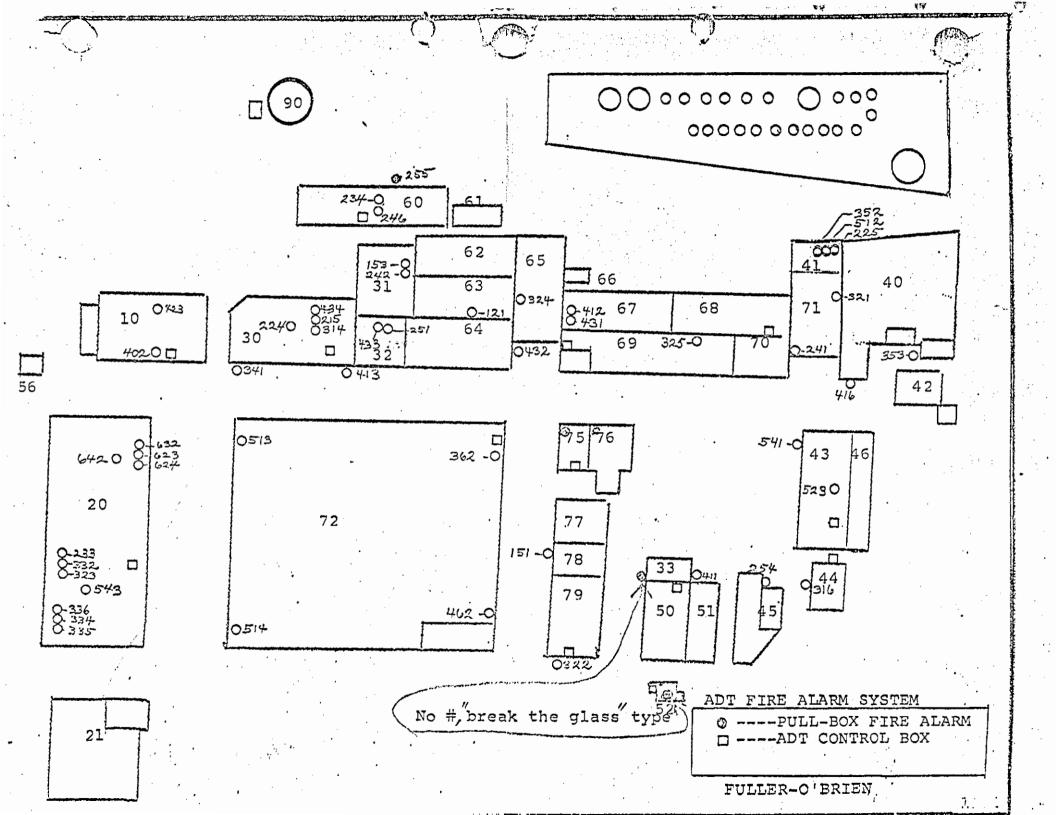
#### Attachments:

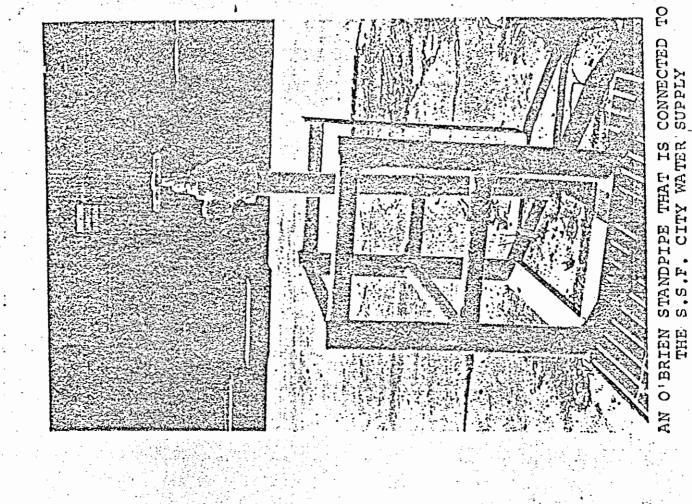
Brigade Meeting Report form
Report of Fire or Emergency by Guard
Plant layout showing Sprinkler water system and riser locations.
Plant layout showing city water system hydrants & standpipes.
Plant layout showing ADT fire alarm boxes (54).
Plant layout showing locations of all hose racks.
Photo of yellow fire hydrant and standpipe.
Photo of red fire hydrant and sprinkler riser.
Photo of O'Brien ATC Foam Cart.
Photo of city water to sprinkler system connector.
Photo of O'Brien fire truck and O'Brien Spill control cart.
15 page discussion of "Fire Hose Care and Usage".

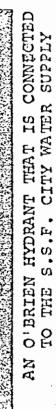


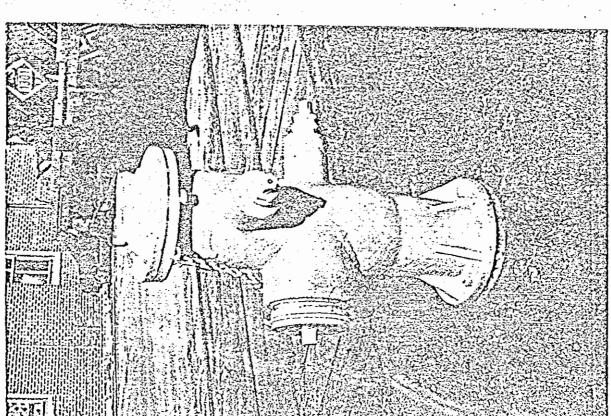






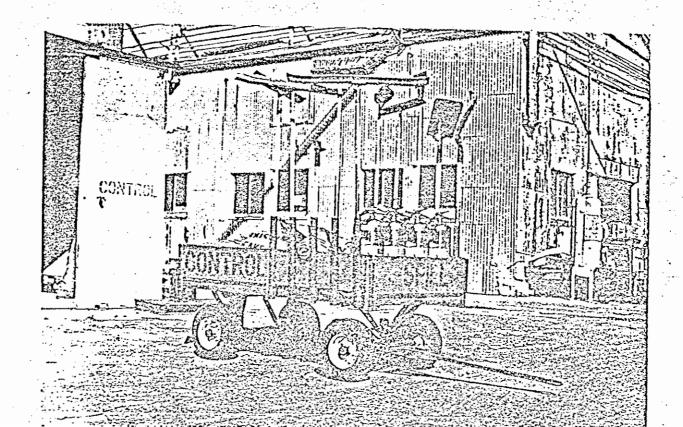


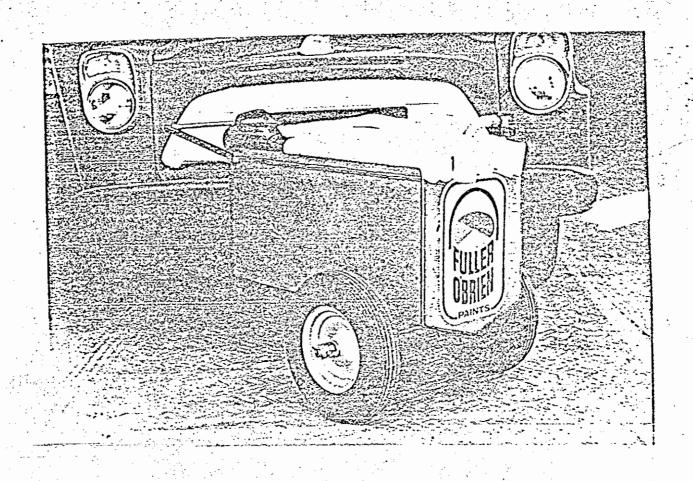






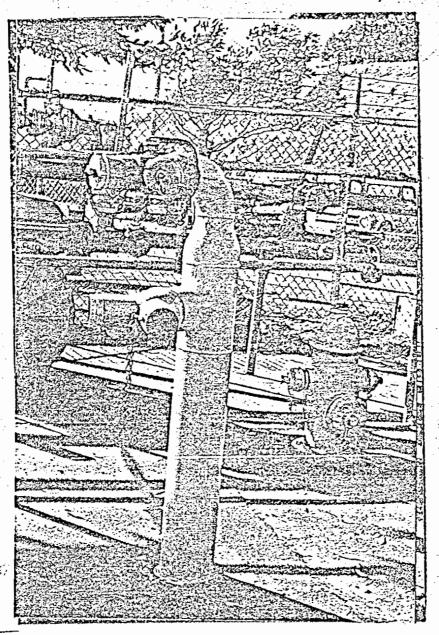
THE O'BRIEN FIRE TRUCK





#### AN O'BRIEN ATC FOAM CART.

THE FOAM CARTS ARE AN ADAPTION OF THE LIGHT-WATER ALCOHOL TYPE CONCENTRATE WHICH IS EFFECTIVE ON ALL, TYPES OF CLASS B FIRES, INCLUDING POLAR SOLVENTS SUCH AS ALCOHOLS, ESTERS AND PETRO-CHEMICAL MIXTURES. IT IS ALSO AN AQUEOUS FILM FORMING FOAM FOR EXTINGUISHING HYDROCARBON LIQUIDS. THESE UNITS BRING HIGHLY MOBILE AND EFFICIENT FOAM APPLICATION CAPABILITY TO AREAS WHERE FLAMMABLE LIQUID HAZARDS EXIST. THE CARTS HOLD 35 GALLONS OF THE ATC FOAM CONCENTRATE THAT WILL PROVIDE FOAM UP TO ABOUT 30 MINUTES. BECAUSE OF THE LIGHT WEIGHT INVOLVED, THESE WHEELED CARTS CAN BE EASILY MANEUVERED AND OPERATED BY ONE PERSON. ACTIVATION IS ACHIEVED BY ATTACHING THE INFLUENT COUPLING TO A STANDPIPE OR OTHER PRESSURIZED WATER SYSTEM AND OPENING THE WATER VALVE. THE TERM "LIGHT WATER" IS A TRADEMARK OF THE 3M COMPANY AND IS SO CALLED BECAUSE THE WATER-FOAM WILL STAY ON THE SURFACE OF THOSE SOLVENTS THAT ARE MUCH LIGHTER IN DENSITY THAN WATER ITSELF, THEREB AFFORDING THE FLAME-QUENCHING BLANKET THAT IS REQUIRED TO HANDLE SUCH FIRES. THE O'BRIEN UNITS CARRY 50 FEET OF 12 INCH HOSE WITH A FOAM NOZZLE ATTACHED, as shown in photo above.



THIS ARRANGEMENT WILL ALLOW WATER TO BE TAKEN FROM A MUNICIPAL HYDRANT OUTSIDE OF THE O'BRIEN FENCE BY MEANS OF AN S.S.F. PUMPER TRUCK, THROUGH THIS CONNECTOR, AND INTO THE O'BRIEN UNDERGROUND FIRE PROTECTION SYSTEM. THIS SET-UP IS USED ONLY BY THE S.S.F. FIRE DEPARTMENT.

#### GENERAL WORK RULES

In order to provide a safe work place and insure an efficient operation, certain procedures must be adhered to. If you have any questions concerning these procedures or do not completely understand them, discuss them with your supervisor.

- A. SAFETY The Company will work to insure that you have a safe work place. It is your responsibility to obey the safety rules that follow and additional rules that may be necessary for your particular job or work area.
  - 1. Wear assigned safety glasses, hard hats and other protective equipment as required.

2. Smoking allowed only in areas posted as "authorized smoking areas".

3. Familarize yourself with the use of static lines.

4. Clean up spills immediately.

5. Do not participate in "horseplay".

- 6. Learn how to lift properly and ask for assistance when necessary.
- 7. Familarize yourself with the fire alarm system, fire drill procedures and use of fire extingushiers and fire blankets.

8. Do not bring food or drink into work area.

- 9. Report accidents to your foreman or supervisor immediately.
- 10. After reporting accident, go to the dispensary for first aid or additional care that may be required.
- 11. When in doubt ask!
- B. ATTENDANCE In order to operate efficiently and not place an unfair burden on fellow employees, you are expected to be at work on time. Since few of us have perfect health, there are days available for sick leave. It is to everyone's advantage if sick leave is not abuses.
  - 1. In the event you are unable to report for work, contact your supervisor as close to the start of you shift as possible. In any event; you must call within two (2) hours of the start of your shift.

2. If you are ill, be sure to see a Physician and whn you return to work bring in a certificate from the Physician indicating when you were released for work.

3. Remember that a poor attendance record can result in disciplinary action up to, and including, termination.

Pafael Some

#### 1. SAFETY RULES:

٤.

A. All safety rules will be enforced and violation will result in immediate dismissal.

#### 2. THEFT RULE:

A. Any employee who steels company or personal property from the company premises will be subject to immediate dismissal.

#### 3. FIGHTING RULE:

A. Any altercation that results in a blow being struck by either party will leave both parties subject to immediate dismissal.

#### 4. HOURS OF WORK:

A. Work standards and union guidelines defining time-in, time-out, breaks wash times and lunch periods will be enforced.

#### 5. LEAVING THE WORK AREA:

A. Each employee is required to notify his/her foreman when it is necessary to leave his/her assigned work area. Foreman are responsible for knowing the whereabouts of all employees in their department at all times.

#### 6. LEAVING THE PLANT:

A. All personnel are required to notify their supervisor or foreman and punch out before leaving the company premises except when on company business. Swing and graveyard shift personnel must also sign out at the guard shack whenever they leave the premises.

#### 7. TELEPHONE CALLS:

A. Personal business calls will be conducted during break and lunch periods only.

#### 8. UNION BUSINESS:

A. Discussions relating to union business will not be conducted on company time without prior approval by the Factory Manager.

Bafad Some

## SAFETY - FOREMAN'S CHECK LIST FOR EMPLOYEES (To be review annually and maintained ( file)

_	
1.	Explain our requirements for the use of safety equipment, what it is, how and when to use it and where it may be obtained, including safety shoes. (Explain that tennis shoes are not to be worn.)
2.	Demonstrate safe way to operate any equipment or tools which the new employee will be called upon to use.
3.	Explain any unique safety requirements of the individual's work or work area.
4.	Point out materials that are located in the department which have chemical properties that are combustible, explosive, corrosive or poisonous.
5.	Explain regulations pertaining to smoking for his department and for the plant as a whole.
6.	Instruct employee in proper way to lift.
7.	Show employee the location of the first aid room and explain our procedure for reporting all injuries to his foreman, requests for aid and requests to see the Nurse.
8.	Explain spontaneous combustion hazards of dirty sawdust and rags. Show worker where rags are to be placed each night.
9.	Point out department locations for trash and rubbish disposal.
10.	Warn employee of slipping hazards that may exist or occur in paint plant. Emphasize need for individual attention to maintain a clean work area and to store tools and equipment properly
11.	Explain that no repairs to any machine or equipment are to be attempted while machine is in motion. (lock-out procedure)
12.	Explain procedure for notifying foreman when the employee leaves the assigned work area.
13.	Cover in detail safety procedures for entering any tank. No employee is to enter any tank without the approval of the department foreman, who is responsible for the safe entry condition of the tank.
14.	Explain fire alarm system for particular work area and facility as a whole, and fire drill procedure.
The foregoi	ng safety check-off was covered with Kalf Gomes
in	IPF Department on 10/11/19
<u>Baar</u> signa	Mc Elhing Bofal Some ture - foreman signature - employee

## SAFETY - FOREMANS CHECK LIST FOR NEW IP: EMPLOYEES

, .	
	Show location of fire alarm and explain operation.
	Show fire alarm code chart and explain use.
	Show fire extinguisher locations and explain use.
	Show fire blanket locations and explain use.
	Show escape routes and explain evacuation procedures.
	Explain operation of sprinkler system and shut-off valves.
<u>/</u>	Explain sprinkler system clearance requirements.
<u> </u>	Demonstrate use of grounding cables and explain static hazard.
	Show location of eye wash and explain use.
	Show location of safety shower and explain use.
	Issue copy of "General Work Rules".
	Issue copy of "IPF Work Rules".
	Issue copy of "Rules for Tank Entry".
	Issue copy of "The Filling Operation". (optional for F/P dept)
The items li	sted were explained and the documents listed were issued to
Raly	26 Domes on 10/11/19 at the IPF.
•	
	• • • • • • • • • • • • • • • • • • •

Bafall & Signature/Employee

Band MC Elhenny Signature/Foreman

C. Smith

R. Bustos

S. Villalobos

### INTEROFFICE MEMORANDUM



P. Mrowka S. Robledo

	est en en pe	•	•		FILE > "
10:	E. Daly 00		DISTRIBUTION: CC:	N. Johnson	
		•	_ :		*
FROM:  DCATION:  DATE:	J. Farris Depot Manager October 28, 1985				
SUBJECT:	FORKLIFT OPERATOR TRAINI	NG	-		•
	The following employees training program and are 18, 1986:  TRADE SALES  T. Bazzani R. Davis J. Dawson S. Grandstaff A. Mota R. Polzoni R. Snover	B. Coo D. McP B. Gus L. Hil J. Bro J. Pee	for license to the ser	L. Carte J. Monte M. Raqui D. Wisk R. Nelso A. Scott L. Peter	r, Jr. enegro
•	DEPOT  D. McKee R. Whitehurst N. Galang, Jr. L. Tessier, Jr.	R. Bea J. Dew W. Gil	art	R. Singl R. Enrig J. Stang	guez .
	<u>IPF</u>		:		
	R. Angerman C. Howell J. Dominguez	J. Agu J. Wil R. Ros	ley :	S. Moni G. Brow B. McEl	n
•	SYNTHETIC RESIN FACTORY		•		

. W. Block

G. Cook

M. Westover

FORKLIFT OPERATOR TRAINING October 28, 1985

#### SHOP

N. Corea W. Royal

M. Lara

R. Gomez

#### QUALITY CONTROL

J. Shehi

L. Matson

The following employees completed their forklift training courses successfully on September 18, 1985 and are not due for renewal until September 18, 1987:

#### IPF

R. Salinas

#### TRADE SALES

B. Lancaster

M. Guerrero

#### DEPOT

D. Johns

L. Williams

Upon expiration of forklift operators licenses, a written test will be given and a training film on forklift operation will be shown for renewal of licenses.

JF/mm

#### SPILL CONTROL

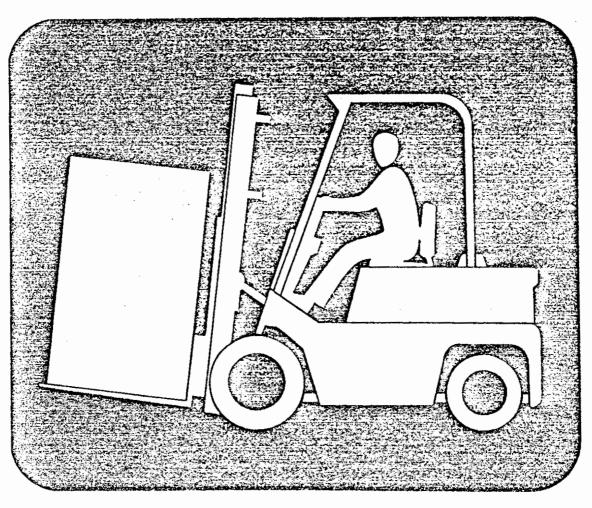
This is to certify that I have been given instructions in the use of the SPILL CONTROL CART.

I have also recieved a set of instructions in the use of the SPILL CONTROL CART and how to clean up a spill.

In Dania.	10-10-85 DATE
Mara	115-10-85
dose L'Foras	DATE 10-85°
Mame Manie Manie	DATE
NAME	10-10-85, DATE
MAME NAME	DATE
JAME DELL	10-10-85 DATE
NAME	DATE

The film "You Bet Your Eyes" was viewed by the highlighted employee on 7/11/85. YOU BET YOUR EYES une Calieceriais () V. . . . . for Forace Ivan Edumion Lown Cangeans Martin F. Organ end Brian Unasher Sterling Faul L. M- Durk

# Mational Safety Council FORKLIFT TRUCK OPERATORS TRAINING COURSE



Trainee Workbook

## FORKLIFT TRUCK OPERATORS TRAINING COURSE

## Trainee Workbook



#### INTRODUCTION

#### What This Course Can Do for You

If you are an experienced driver, this course will sharpen your skills and help you become a better and safer operator. If you have not had much experience, it will give you a better understanding of the operation of industrial trucks, the problems you might encounter with them and how you can minimize trouble for yourself and the company.

Your successful completion of this course will go a long way toward establishing you as a pro. The course has been carefully designed to be practical and to give you ideas and information that will help you become a better and safer lift truck operator. Your ability to stay accident-free is evidence of your skill and ability.

You should be proud that you were selected to take this important course because of your past job performance. When you successfully complete the course, you will be authorized to operate specialized equipment that other employees are not permitted to operate.

#### Importance of the Course

Our objective in this course is to prevent injury and minimize property damage through accidents involving our lift trucks.

Reckless driving or lack of know-how in operation has caused and can cause loss of life, permanent injury and extensive damage to property that could even shut down our operations and put you and your fellow workers out of a job. With your help we can reduce the tragedy and personal suffering from accidents, lower the costly waste and improve the overall efficiency and productivity of our operations.

Your record and skill as a truck operator will be most valuable to you in the future. Our powered lift trucks eost as much as a fine passenger car, sometimes considerably more. They are expensive and vital pieces of equipment that, if not properly used and maintained, can cause serious injury, heavy damage to products and facilities, and high maintenance and operating costs.

#### How This Course Will Be Conducted

The course consists of several classroom sessions and actual demonstration and practice in driving. Before each session, review the material to be discussed so you can bring up any problems or ask questions.

At the beginning of each session there will be review questions on the preceding session. Be sure you are familiar with the materials covered in that session so you can answer the review questions. At the end of the course there will be a written examination that you should have no difficulty passing if you participate in the class discussion and follow the material attentively as it is presented.

At the conclusion of the practice sessions, a driving test will permit your instructor to evaluate your performance. If you successfully complete the written examination and the driving test, you will be presented with a wallet card and certificate certifying your skill and safe attitudes as a lift truck operator.

You will profit most from this course if you actively participate in the discussion. Previous experience and ideas for improving our operations will benefit everyone. No matter what your experience, there are always new things to learn.

For these reasons, it is important to follow the instruction and to contribute to class discussion.

This workbook consists of key points in each session and space to write notes in connection with them.

During the class sessions, make notes and jot down any ideas useful to you in the space provided. Between sessions remember to write down any questions or points you would like to have discussed or clarified. Your suggestions on your equipment and its maintenance will always be appreciated.

#### Session I — Part 1: Importance of the Program

(New and Experienced Operators)



Better and Safer Operators

Less Property Damage

Lower Maintenance Costs

Increased Efficiency

Qualify as a Certified Operator

#### TYPE OF TRUCKS OPERATED

Gas

LPG

Diesel

Electric

TYPES OF LOADS MOVED

#### PLANT TRAFFIC FLOW

TRUCK OPERATION

Safety Rules

Avoiding Violations

OSHA REQUIREMENTS FOR OPERATORS

# Session I — Part 2: Mechanics of a Forklift Truck (New Operators)

#### COMPANY RULES

Need for Protective Equipment

Compliance

#### TRUCK NAMEPLATE

Load Limits

Results of Overloading

Height Lift Limits

<u> </u>
Ė.
**************************************
ern 🤾
-
-
Ê
1

Illustration No. 1

Overhead Clearances

Overhead Guard

#### DRIVING CHARACTERISTICS

Truck Weights

Load Weights

Moving Loads Vertically and Horizontally

No Springs or Shock Absorbers

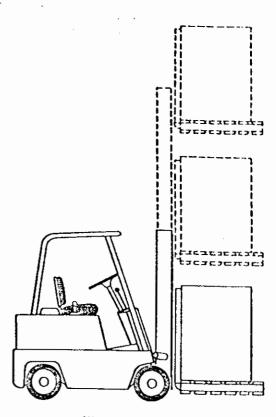


Illustration No. 2

#### STABILITY TRIANGLE

Three-Point Suspension

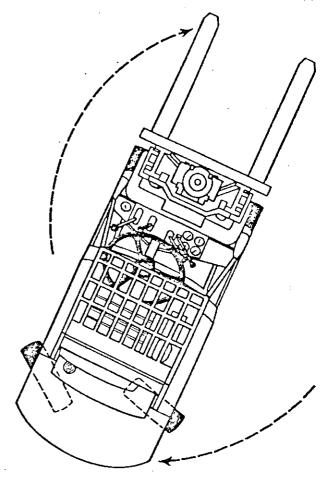


Illustration No. 3

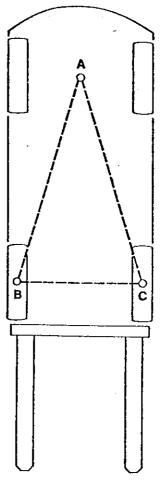


Illustration No. 4

#### Center of Gravity Shift

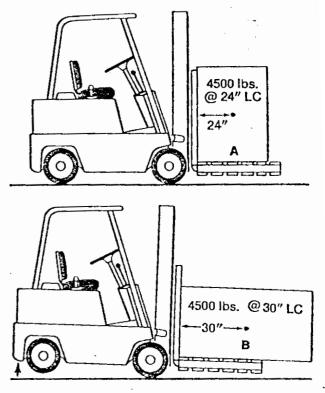


Illustration No. 5

Heaviest Weight Near Truck

Seesaw Principle

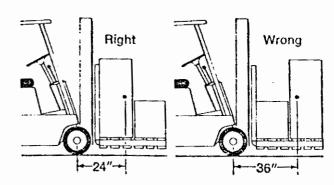


Illustration No. 6

## LOAD PLACEMENT

Balanced Loads

Load Weight vs Load Center

Effects of Tilting the Mast

When Traveling

When Elevating

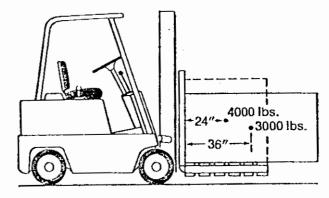


Illustration No. 7

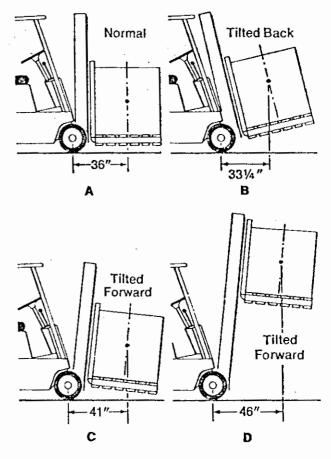


Illustration No. 8

## DRIVING ON INCLINES

Turning

Load Upgrade

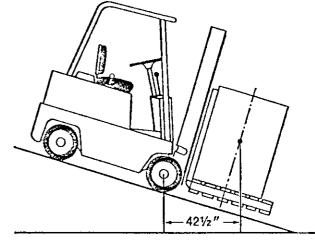


Illustration No. 9

Effect of Load Distance

# Session I — Part 2A: Improve Our Accident Experience (Experienced Operators)

## PURPOSE OF TRAINING PROGRAM

Review for Experienced Operators

Reduce Accidents and Improve Efficiency

How To Help New Operators

Set Good Example

Watch for Bad Habits

Give Help

## POINTS TO STRESS FOR NEW OPERATORS

Types of Possible Accidents

Near Misses

Equipment and Shock Damage

#### VIOLATIONS OF OPERATING RULES

## REVIEW OF BASIC OPERATING PRINCIPLES

Know Limits of Truck

Do Not Overload

Seesaw Principle				
		÷		
Dalaman I I I				
Balanced Loads				
	•			
•				
•				
Elevated Loads				
Dievated Loads				
	•			
	•			
	· · · · · · · · · · · · · · · · · · ·			
	•			
•	•			
Traveling				
				,
~				
Stacking				
•				

Stability Triangle

Driving on Inclines

Wearing Protective Equipment

Awareness of Hazardous Situations

Awareness of Fellow Employees

# Session II — Part 1: Inspection and Maintenance

(New and Experienced Operators)



Load Limits

Load Center Rules

Tilting the Mast

Ramps

Smooth Operation

# OPERATOR'S DAILY REPORT FORM

<b>Importance</b>	of	Ins	nections
munomance	$\mathbf{o}_{\mathbf{I}}$	THO	pecuons

Relation of Daily Inspection to Maintenance Program

Reporting Unsafe Conditions

Report From Review

# ADDITIONAL FACTORS FOR GOOD MAINTENANCE

Other Sources of Truck Accidents

Obstructions on Floor

	•		•	
Weak Sto	rage Racks			
		•		
·				
Good Driving Ha	ibits			
			•	
Keeping the Tru	ck Clean	,		
			-	
				•
	·			
Do Only Author	rized Maintenance Work			
Never Work on	Lift Mechanism That Is Not	: Functioning		
Never Work on	Lift Mechanism That Is Not			
Never Work on	Lift Mechanism That Is Not	t Functioning		

Loose Dock Plates

Never Reach Through the Mast

# OPERATOR'S DAILY REPORT

# Engine-Powered Lift Trucks

Makan Dandinas Charle		End		Hours for Shift
weter Reading: Start		<b>E</b> nd		HOURS FOR SHIFT
CHECK EACH ITEM		SHIFT		Explain below if not OK or
If OK write OK	Start	During	End	any other action taken
1. Fuel level		·		
2. Oil level and pressure				
3. Water level and fan belt				
4. Brakes – service and parking				
5. Lights — head, tail and warning				
6. Horn				
7. Hour meter and gauges				·
8. Steering				
9. Tires				,
10. Hydraulic controls				
11. Other conditions				
arks and additional explanation	or sugge	estions		
		·		

Operator's Signature

# OPERATOR'S DAILY REPORT

# Battery-Powered Lift Trucks

	End		Hours for Shift
	SHIFT		Explain below if not OK or
Start	During	End	any other action taken
	·		
		EndSHIFT	·

Operator's Signature \_

# Session II — Part 2: Safe Driving and Traffic Rules

(New and Experienced Operators)

#### GENERAL DRIVING RULES

Same as Highway Driving

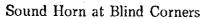
Keep Right

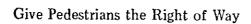
Obey Speed Limit

Don't Tailgate

Keep a Space Cushion Around Truck

Slow Down at Intersections







## SAFE STOPPING DISTANCES

Three Truck Lengths

Blind Corners

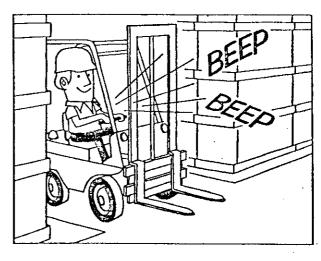


Illustration No. 10

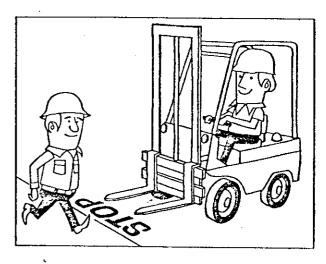


Illustration No. 11

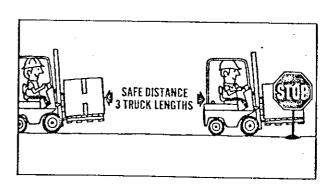


Illustration No. 12

Face Direction of Travel

Hazard of Elevated Loads

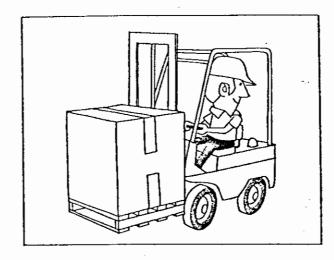


Illustration No. 13

Wet Floors and Rough Floor Surface

Wearing Protective Equipment

DRIVING ONTO ELEVATORS

HANDLING UNSAFE LOADS

**Broken Pallets** 

Damaged Pallets, Cartons and Bags

#### SAFE OPERATING PRACTICES

Dry Hands and Shoes

Look Around Before Moving Truck

Know Position of Fork Tips

Fork Trucks Are Not Tow Trucks

# Session III - Part 1:

# Special Operating Rules — Loading Trailers and Freight Cars

(New and Experienced Operators)

## REVIEW OF PREVIOUS SESSION

Driving Rules

Stopping Distances

Unsafe Loads

**Operating Practices** 

DRIVING ON RAMPS

Shifting Loads

Unbalanced Truck

Increased Stopping Distance

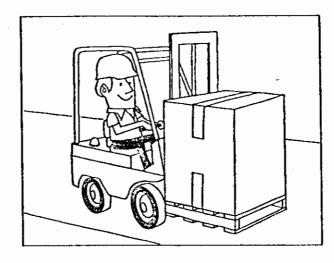


Illustration No. 14

## DRIVING ON LOADING DOCKS

Too Close to Edge

Rear-End Swing of Truck

Wet Surface

Changing Light Conditions

## LOADING TRAILERS

Operator's Responsibility

Wheels Chocked

Brakes Set

Need for Jacks for Trailers

## CONDITION OF FLOORS

CROSSING RAILROAD TRACKS

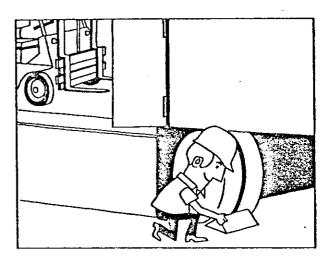


Illustration No. 15

## OPENING AND CLOSING FREIGHT CAR DOORS

## PARKING FORK TRUCKS

Forks on Floors

Controls in Neutral

**Brakes Set** 

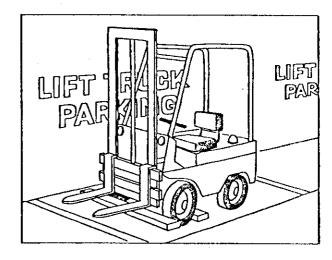


Illustration No. 16

Remove Key

Overhead Obstructions

KNOW FLOOR CAPACITY

OVERHEAD CLEARANCE RULES

Sprinklers

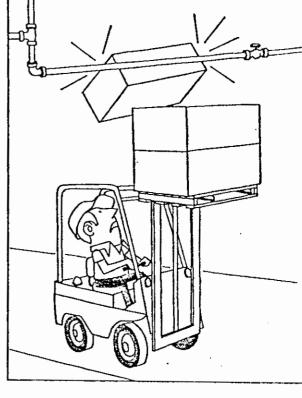


Illustration No. 17

**Electrical Controls** 

Clearance Under Sprinklers for Different Materials

PROCEDURE FOR STACKING

Maneuver Slowly

# Session IV — Part 1: Emergency Procedures and Refueling (New and Experienced Operators)



LEAKS OF GAS OR FLAMMABLE LIQUIDS

How To Report

Use of Fire Extinguisher

KEEPING FIRE AND EMERGENCY EQUIPMENT CLEAR

Do Not Deposit Loads

Do Not Park Trucks

Watch Rear-End Swing
Approach Rack Head-On
Stop Before Raising Load
Place Load Securely Before Removing Fork
Lower Fork to Floor Before Moving Truck

NEVER TRAVEL WITH LOAD RAISED

# Session III — Part 2: Special Operating Rules — Stacking and Tiering

(New and Experienced Operators)

C.A	PARTI	$\Omega$ F	TINCT	ARLE	LOADS
$\mathbf{v}_{I}$	LUBEB	Or.	UNSI	adub	LUADS

Broken Pallets

Broken Strapping

Crushed Cartons

Unbalanced Load

CLEARANCE FOR THE LOAD

Aisles

# REFUELING

Company Rules

Designated Areas

Procedure

First-Aid Provisions

# BATTERY CHARGING

Company Rules

Designated Areas

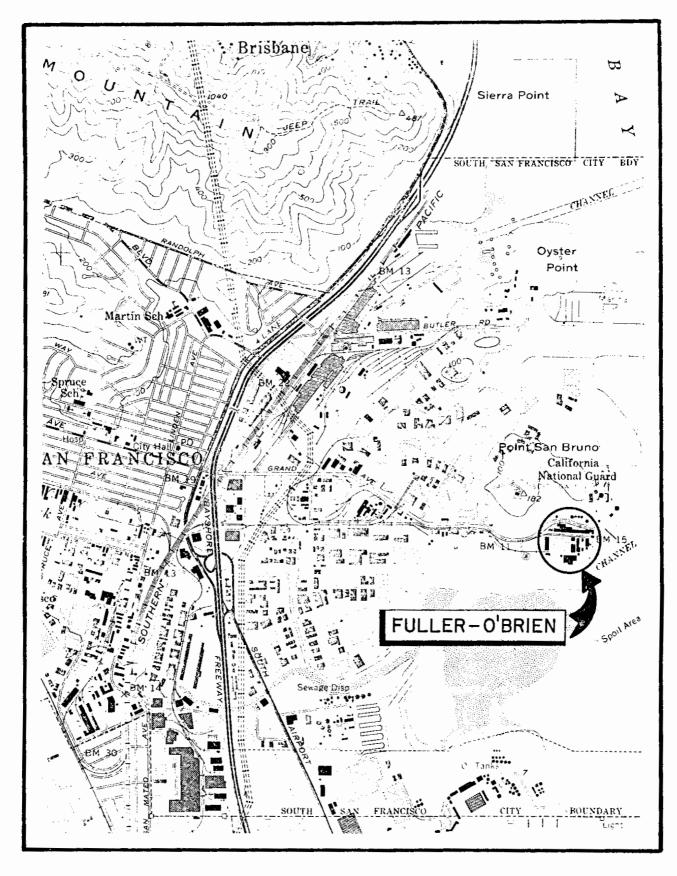
Procedure

First-Aid Provisions

## HAZARDOUS WASTES SCHEDULED FOR JUNE PROMULGATION

EPA HAZARDOUS WASTE NUMBER	HAZARDOUS WASTES FROM NON-SPECIFIC SOURCES
F017,	Paint residues generated from industrial painting.
F018	Wastewater treatment sludges from industrial painting.
	HAZARDOUS WASTES FROM SPECIFIC SOURCES
K070	Woven fabric dying and finishing wastewater treatment sludges.
K071	Mercury bearing sludges from brine treatment and mercury bearing brine purification muds from the mercury cell process in chlorine production.
K072	Wastewater treatment sludge from the diaphragm cell process using graphite anodes in the production of chlorine.
K073	Chlorinated hydrocarbon bearing wastes from the diaphragm cell process using graphite anodes in chlorine production.
K074	Wastewater treatment sludges from the production of TiO <sub>2</sub> pigment using chromium bearing ores by the chloride process.
K075	Wastewater treatment sludges from the production of TiO <sub>2</sub> pigment using chromium bearing ores by the sulfate process.
K076	Arsenic bearing sludges from the purification process in the production of antimony oxide.
К077	Antimony bearing wastewater treatment sludge from the production of antimony oxide.
→ K078	Solvent cleaning wastes from paint manufacturing.
	Solvent cleaning wastes from paint manufacturing Water cleaning wastes from paint manufacturing.
<del>-&gt;</del> K079	_
<del>-&gt;</del> K079	Water cleaning wastes from paint manufacturing.
→K079	Water cleaning wastes from paint manufacturing Caustic cleaning wastes from paint manufacturing.
→K079	Water cleaning wastes from paint manufacturing Caustic cleaning wastes from paint manufacturing Wastewater treatment sludges from paint manufacturing.
→K079	Water cleaning wastes from paint manufacturing Caustic cleaning wastes from paint manufacturing Wastewater treatment sludges from paint manufacturing Air pollution control sludges from paint manufacturing.
→K079	Water cleaning wastes from paint manufacturing Caustic cleaning wastes from paint manufacturing Wastewater treatment sludges from paint manufacturing Air pollution control sludges from paint manufacturing Still bottoms from aniline production Arsenic or organo—arsenic containing wastewater treatment sludges from the production
→K079	Water cleaning wastes from paint manufacturing Caustic cleaning wastes from paint manufacturing Wastewater treatment sludges from paint manufacturing Air pollution control sludges from paint manufacturing Still bottoms from aniline production Arsenic or organo—arsenic containing wastewater treatment sludges from the production of veterinary pharmaceuticals Distillation residue from the separation of chlorobenzenes in the production of chloro-
→K079	Water cleaning wastes from paint manufacturing Caustic cleaning wastes from paint manufacturing Wastewater treatment sludges from paint manufacturing Air pollution control sludges from paint manufacturing Still bottoms from aniline production Arsenic or organo—arsenic containing wastewater treatment sludges from the production of veterinary pharmaceuticals Distillation residue from the separation of chlorobenzenes in the production of chlorobenzenes.
→K079 K080 →K081 →K082 K083 K084 K086 K086	Water cleaning wastes from paint manufacturing Caustic cleaning wastes from paint manufacturing Wastewater treatment sludges from paint manufacturing Air pollution control sludges from paint manufacturing Still bottoms from aniline production Arsenic or organo—arsenic containing wastewater treatment sludges from the production of veterinary pharmaceuticals Distillation residue from the separation of chlorobenzenes in the production of chlorobenzenes Sludges, wastes from tub washers (ink formulation).
→K079 K080 →K081 →K082 K083 K084 K086 K086 K087 K088	Water cleaning wastes from paint manufacturing Caustic cleaning wastes from paint manufacturing Wastewater treatment sludges from paint manufacturing Air pollution control sludges from paint manufacturing Still bottoms from aniline production Arsenic or organo—arsenic containing wastewater treatment sludges from the production of veterinary pharmaceuticals Distillation residue from the separation of chlorobenzenes in the production of chlorobenzenes Sludges, wastes from tub washers (ink formulation) Coking: Decanter tank tar/pitch/sludge.
→K079 K080 →K081 →K082 K083 K084 K086 K086 K086 K087 K088	Water cleaning wastes from paint manufacturing Caustic cleaning wastes from paint manufacturing Wastewater treatment sludges from paint manufacturing Air pollution control sludges from paint manufacturing Still bottoms from aniline production Arsenic or organo—arsenic containing wastewater treatment sludges from the production of veterinary pharmaceuticals Distillation residue from the separation of chlorobenzenes in the production of chlorobenzenes Sludges, wastes from tub washers (ink formulation) Coking: Decanter tank tar/pitch/sludge Spent potliners (cathodes) from primary aluminum production.
→K079  K080  →K081  →K082  K083  K084  K086  K086  K086  K087  K088  K089	Waste cleaning wastes from paint manufacturing Caustic cleaning wastes from paint manufacturing Wastewater treatment sludges from paint manufacturing Air pollution control sludges from paint manufacturing Still bottoms from aniline production Arsenic or organo—arsenic containing wastewater treatment sludges from the production of veterinary pharmaceuticals Distillation residue from the separation of chlorobenzenes in the production of chlorobenzenes Sludges, wastes from tub washers (ink formulation) Coking: Decanter tank tar/pitch/sludge Spent potliners (cathodes) from primary aluminum production Lead bearing wastewater treatment sludges from gray iron foundries.

RCRA REPORT PREP	ARATION REQUEST	FORM FOR: FULLE	RO'BRIEN		FROM: DZ	DATE SUE		ED: <u>6 / 6 /</u> 8 ED://8	
ITEM	TRANSMITTAL LETTER . #	REPORT NARRATIVE #	CHECKLIST	<u>‡</u>	PHOTOS #	ATTACHMENTS	<u>‡</u>	TWO-WAY MEMO	<u>‡</u>
BOBEL (T-2) FACILITY FIS FILE READING FILE bc: Wilson TOM BAILEN OUR PAUL SMITH DOHSBERKELEN ROGER JOHNSON RWOCB 2 INSPECTOR RON MILLER (AZ) DAN CHANG (HI) H. Laverne Rosse Additional cc's	WHITE COPY 1 WHITE COPY 1 WHITE COPY 1 WHITE COPY 1	WHITE BOND 1 WHITE COPY 1 WHITE COPY 2 WHITE COPY 1 WHITE COPY 1 WHITE COPY 1 WHITE COPY 1 WHITE COPY 1 WHITE COPY 1	ORIGINAL WHITE COPY WHITE COPY WHITE COPY WHITE COPY WHITE COPY WHITE COPY WHITE COPY	1 1 2 1 0 1 1 0 1	ORIGINAL 1 COPY 1 COPY 1 COPY 1 COPY 1 COPY 1 COPY 1	ORIGINAL.	1 0 0 0 0 0 0 0 0 0 0 0	PAGE one/two FILE PAGE 3 WHITE COPY	2 0 1 0 0 0 0 0 0 0
TOTAL COPIES	5	8		8	5		0		1
Collate Packages	As Follows:								
Narrati Checkli Attachm  2. Right-hand s Yellow Facilit	memo (first two ve - original st - original ents - original ide of folder. concurrence copy y copy w/origina bc copies as sho	pages) - origing photons  (including photons)  (including photons)	nal	4.	Tran Horg Bobe	ver. smittal form as an(T-3-2)-Shim l(T-2) nstructions.			) <b>-</b>



LOCATION MAP

SCALE: |" = 2000'